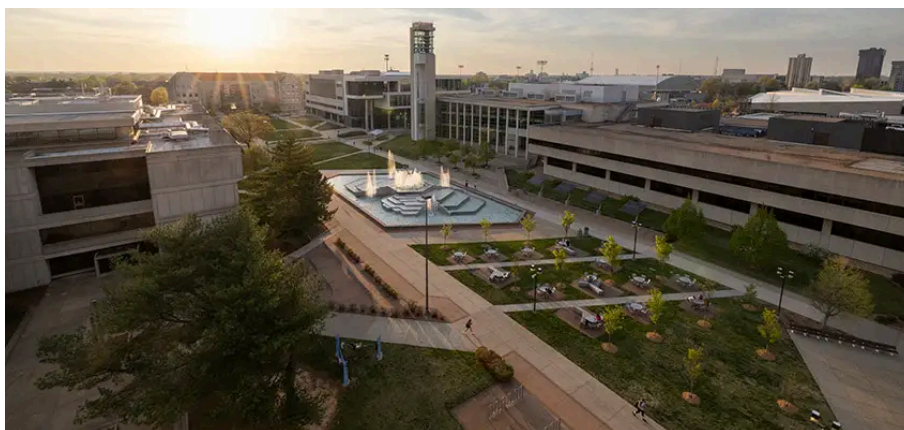


Missouri State University Catalogs



The Missouri State University Undergraduate and Graduate Catalogs (hereby referred to as the “Catalogs”) are the official source of information regarding the University’s academic programs and courses. The catalogs serve as a guide, in conjunction with regular academic advising and a student’s degree audit, in planning a course of study and in meeting requirements for graduation.

The catalogs are published annually in the Spring for the following academic year, which begins in the Fall. Although course offerings and academic requirements at Missouri State University are continually under examination and revision, the catalogs are updated only once per year. This annual revision procedure helps ensure that users of the catalogs will not find unexpected changes during their academic planning processes.

The Missouri State Undergraduate and Graduate catalogs are not irrevocable contracts. Information published in them is subject to change by the University at any time without notice.

Publication Schedule

The Missouri State University curriculum year begins in August and ends in May, with curricular updates generally fully implemented prior to the beginning of the fall semester. New programs will not be listed in the catalogs until full state and accreditation approvals are complete. The catalogs will only have one publication, but content updates will be made until all curricular approvals are fully implemented for the curriculum year.

The 2024-2025 catalogs now reflect all curricular updates. Faculty tenure/promotion and per course faculty listings will be updated prior to October 1st. Otherwise, the publication of both the undergraduate and graduate catalogs is complete for the 24-25 catalog year.

Catalog Year Requirements

The requirements specified in the catalogs apply to students who commence their studies at Missouri State University during that academic year and who remain in continuous enrollment (no enrollment interruption longer than 12 consecutive months) at the institution until they graduate. If requirements for a major, minor, program, or certificate are changed in the catalog, students remain by default under the old requirements. However, students may elect to follow these new requirements by requesting a change to

their catalog year. Students unsure of which catalog to use should consult with their advisor.

What's New This Year?

New/Delete/Changed programs not yet fully approved by the state and/or accreditation will not appear in the catalogs until receipt of that approval.

Curriculum appearing for the first time in this catalog includes:

Academic Areas:

- The department of Geography, Geology, and Planning has been renamed as the School of Earth, Environment & Sustainability.
- The departments of Merchandising and Fashion Design & Technology and Construction Management have merged to create the School of Construction, Design and Project Management.
- The college of McQueary Health and Human Services has added two new schools, School of Health Care Professions and School of Health Sciences.

New Undergraduate Majors

- Esports-BS (non-comprehensive)
- Career and Technical Education-BSED (comprehensive)
- Data Science-BS (non-comprehensive)

New Graduate Degree:

- Business Administration-MBA - STEM

Significant Program Updates:

- Merchandising and Fashion Product Development-BS (comprehensive) title changed to: Digital Fashion and Merchandising
- Recreation, Sport, and Park Administration-BS (comprehensive) title changed to: Sport and Recreation Administration
- Exercise and Movement Science-BS title changed to: Exercise Science (comprehensive)
- Master of Science in Nursing deleted options Nurse Educator and Population Leadership and added options Adult Gerontology-Acute Care, Practice Leadership, and Psychiatric-Mental Health Practitioner; Family Nurse Practitioner option remains
- Doctor of Nursing Practice deleted options Nurse Educator and Population Health, added Adult Gerontology-Acute Care, Practice Leadership, and Psychiatric Mental Health options; Family Nurse Practitioner option remains; Post-Master's renamed to Leadership

Discontinued Programs:

- Economics-BS (non-comprehensive)
- Recreation, Sport, and Park Administration-BS (non-comprehensive)

Course Code Updates:

- FCS changed to CTE
- MCL changed to LCR
- MFD changed to DFM
- REC changed to SPR
- New course code: TOU (Tourism)
- New course code: SAG (Sociology, Anthropology and Gerontology)

This list is not a comprehensive inventory of all curriculum updates for 2024-2025. For questions regarding specific updates, search the full catalogs prior to contacting the appropriate academic area.

2024-2025 Graduate Catalog



Catalog Year Requirements

The requirements specified in the Catalogs apply to students who commence their studies at Missouri State University during that academic year and who remain in continuous enrollment (no enrollment interruption longer than 12 consecutive months) at the institution until they graduate. If requirements for a major, minor, program, or certificate are changed in the Catalog, students remain by default under the old requirements. However, students may elect to follow these new requirements by requesting a change to their catalog year. Students unsure of which catalog to use should consult with their advisor.

Catalog Icon Guide

Adds bookmark links to My Catalog, located at the bottom of the left navigation.

Generates a pop-up window formatted to neatly print the webpage being currently viewed.

Includes additional information about how to use this Acalog catalog.

Catalog Contact Information

Students needing assistance with academic information and planning should consult their academic advisor.

Students needing assistance with registration or academic records may contact registrar@missouristate.edu.

Faculty, academic area administrators and staff should email curriculum@missouristate.edu for questions or concerns about catalog information and curriculum.

Colleges and Academic Units

Missouri State University

College of Business

Academic Units

Business Unit

- School of Accountancy
- Department of Finance, Economics and Risk Management
- Department of Information Technology and Cybersecurity
- Department of Management
- Department of Marketing

Accreditation within the Business Unit

AACSB-International - The Association to Advance Collegiate Schools of Business-International

Non-Business Units

- School of Construction, Design and Project Management
- Bachelor of Arts in Economics program-Department of Finance, Economics and Risk Management

Accreditations outside the Business Unit

- American Council for Construction Education
- Project Management Institute Global Accreditation Center

Contact

Dean

David B. Meinert, PhD

Associate Deans

Kent P. Ragan, PhD, CFA

Office

Glass Hall, Room 400

Phone

417-836-5646

Email

COB@MissouriState.edu

Website

Business.MissouriState.edu

Business Advisement Center

School of Accountancy

Accreditation

AACSB-International - The Association to Advance Collegiate Schools of Business-International

Contact

School Director

Kimberly S. Church, PhD

Office

Glass Hall, Room 439

Phone

417-836-5414

Email

Accountancy@MissouriState.edu

Website

MissouriState.edu/SOA

School of Construction, Design and Project Management

Accreditations

- ABET Engineering Technology Accreditation Commission - Mechanical Engineering Technology (BS)
- American Council for Construction Education - Construction Management (BS)
- National Association of Schools of Art and Design - Interior Design (BS)
- Project Management Institute-Global Accreditation Center for Project Management Education Programs - Project Management (MS)

Contact

School Director

Richard J. Gebken, PhD

Office

Glass Hall, Room 200

Phone

417-836-5121

Email

TCM@MissouriState.edu

Website

Build.MissouriState.edu

Department of Finance, Economics and Risk Management

Accreditation

AACSB-International - The Association to Advance Collegiate Schools of Business-International

Contact

Department Head

Jeffrey S. Jones, PhD, CFA, CPA, CMA, CFM

Office

Glass Hall, Room 300

Phone

417-836-5504

Email

FERM@MissouriState.edu

Website

MissouriState.edu/FERM

Department of Information Technology and Cybersecurity

Accreditation

AACSB-International - The Association to Advance Collegiate Schools of Business-International

[Contact](#)

Department Head

Xiang Guo, PhD

Office

Glass Hall, Room 359

Phone

417-836-4131

Email

ITC@MissouriState.edu

Website

ITC.MissouriState.edu

Department of Management

Accreditation

AACSB-International - The Association to Advance Collegiate Schools of Business-International

[Contact](#)

Department Head

Luis A. Perez Batres, PhD

Office

Glass Hall, Room 414

Phone

417-836-5415

Email

Management@MissouriState.edu

Website

MGT.MissouriState.edu

Department of Marketing

Accreditation

AACSB-International - The Association to Advance Collegiate Schools of Business-International

[Contact](#)

Department Head

Ismet Anitsal, PhD

Office

Glass Hall, Room 238

Phone

417-836-5413

Email

Marketing@MissouriState.edu

Website

MissouriState.edu/MKT

College of Business Programs

Contact

Dean

David B. Meinert, PhD

Associate Deans

Kent P. Ragan, PhD, CFA

Elizabeth J. Rozell, PhD

Office

Glass Hall, Room 400

Phone

417-836-5646

Email

COB@MissouriState.edu

Website

Business.MissouriState.edu

Business Advisement Center

College of Education

Academic Units

Schools

- School of Special Education, Leadership and Professional Studies
- School of Teaching, Learning and Developmental Sciences
- Greenwood Laboratory School (non-degree granting)

Centers/Departments

- Secondary Education
- Center for Rural Education
- Child Development Center (non-degree granting)

Missouri State Board of Education approved programs

The following professional education programs have received continuing accreditation by the Missouri Department of Elementary and Secondary Education for purposes of teacher preparation and certification.

Childhood Education and Family Studies

- Early Childhood Education (Birth-grade 3)
- Elementary Education (1-6)
- Middle School (5-9):
 - Language Arts
 - Social Studies
 - Mathematics
 - Science
- Additional Middle School endorsements can be added in:
 - Agriculture*
 - Drama*
 - Speech*

Communication Sciences and Disorders

- Speech/Language Specialist (K-12)
- Deaf/Hearing Impaired (Birth-grade 12)

Counseling, Leadership, and Special Education

- Special Education:
 - Mild/Moderate: Cross Categorical (K-12)
 - Blind and Partially Sighted (Birth-grade 12)

Secondary Education (9-12 and K-12)

- Agriculture (9-12)

- Art (K-12)
- Business Education (9-12)
- English (9-12)
 - English Language Learners (K-12)*
- Family and Consumer Sciences (K-12)
- History (Social Science) (9-12)
- Language, Modern (K-12)
 - Chinese
 - French
 - German
 - Japanese
 - Latin
 - Spanish
- Mathematics (9-12)
- Music (K-12)
 - Instrumental
 - Vocal/Choral
- Physical Education (K-12)
 - Driver's Education (9-12)*
 - Health (K-12)*
- Speech/Theatre (9-12)

*Only available as an additional area of certification. Student must be concurrently enrolled in another area of Elementary, Middle School, or Secondary Education.

Teacher Certification (Postbaccalaureate)

Students who have already obtained a bachelor's degree and are seeking state of Missouri teacher certification should contact the Office of Professional Education Certification. Learn more: [Professional Education Certification](#)

Contact

Dean

Barri E. Tinkler, PhD

Associate Dean

Denise D. Cunningham, PhD

Office

Hill Hall, Room 230

Phone

417-836-5254

Email

CollegeOfEducation@MissouriState.edu

Website

Education.MissouriState.edu

Education.MissouriState.edu/Advise

School of Special Education, Leadership and Professional Studies

Accreditations

- Educational Administration (MSEd, EdS); Special Education/Cross Categorical (BSEd); Special Education (MSEd)
- Educational Administration (MSEd, EdS); Special Education/Cross Categorical (BSEd); Special Education (MSEd)
- Council on Education of the Deaf - Special Education option in Education of Deaf and Hard of Hearing (MSEd)

Contact

School Director

Marjorie C. Shavers, PhD

Office

Hill Hall 317

Phone

417-836-6769

Email

SELPS@missouristate.edu

Website

Education.MissouriState.edu/SELPS

School of Teaching, Learning and Developmental Sciences

Accreditations

- Missouri Department of Elementary and Secondary Education - Early Childhood Education (BSEd); Elementary Education (BSEd); Family and Consumer Sciences (BSEd); Secondary Education/Family and Consumer Sciences (MSEd)
- Council for the Accreditation of Educator Preparation - Early Childhood Education (BSEd); Elementary Education (BSEd, MSEd); Family and Consumer Sciences (BSEd); Secondary Education/Family and Consumer Sciences (MSEd)

Contact

School Director

Denise D. Cunningham, PhD

Office

Hill Hall, Room 312

Phone

417-836-3262

Email

STLDS@MissouriState.edu

Website

Education.MissouriState.edu/TLDS

College of Natural and Applied Sciences

Academic Units

Schools

- School of Earth, Environment and Sustainability

Departments

- Department of Biology
- Department of Chemistry and Biochemistry
- Department of Computer Science
- Department of Mathematics
- Department of Physics, Astronomy and Materials Science

Program

- Cooperative Engineering Program (Missouri University Science and Technology)

Centers/Departments

- Baker Observatory
- Bull Shoals Field Station
- Center for Resource Planning and Management
- Ozarks Environmental and Water Resources Institute

Contact

Dean

Tamera S. Jahnke, PhD

Associate Dean

Jorge L. Rebaza-Vasquez, PhD

Office

Roy Blunt Hall, Room 142

Phone

417-836-5249

Email

CNAS@MissouriState.edu

Website

CNAS.MissouriState.edu

School of Earth, Environment and Sustainability

Accreditations

- Missouri Department of Elementary and Secondary Education - Secondary Education/Earth Science (MSEd); Secondary Education/Geography (MSEd)
- Council for the Accreditation of Educator Preparation - Secondary Education/Earth Science (MSEd); Secondary Education/Geography (MSEd)
- Planning Accreditation Board - Community and Regional Planning (BS)

Contact

School Director

Toby J. Dogwiler, PhD

Office

Roy Blunt Hall, Room 354

Phone

417-836-5800

Email

SEES@MissouriState.edu

Website

Geosciences.MissouriState.edu

Department of Biology

Accreditations

- Missouri Department of Elementary and Secondary Education - Secondary Education/Biology (MSEd)
- Council for the Accreditation of Educator Preparation - Secondary Education/Biology (MSEd)

Contact

Department Head

Kyoungtae Kim, PhD

Office

Roy Blunt Hall, Room 258

Phone

417-836-5126

Email

Biology@MissouriState.edu

Website

Biology.MissouriState.edu

Department of Chemistry and Biochemistry

Accreditations

- Missouri Department of Elementary and Secondary Education - Secondary Education/Chemistry (MSEd)
- Council for the Accreditation of Educator Preparation - Secondary Education/Chemistry (MSEd)

American Chemical Society Certification

The Department of Chemistry and Biochemistry department received approval from the American Chemical Society (ACS) Committee on Professional Training in 1974 and continues to maintain this certification.

Contact

Department Head

Adam Wanekaya, PhD

Office

Roy Blunt Hall, Room 423

Phone

417-836-5506

Email

Chemistry@MissouriState.edu

Website

Chemistry.MissouriState.edu

Department of Computer Science

Accreditation

The BS in Computer Science/Computer Science option is accredited by the Computing Accreditation Commission of ABET.
Learn more: [abet.org](https://www.abet.org)

[Contact](#)

Department Head

Ajay K. Katangur, PhD

Office

Cheek Hall, Room 203C

Phone

417-836-4157

Email

ComputerScience@MissouriState.edu

Website

ComputerScience.MissouriState.edu

Department of Mathematics

Accreditations

- Missouri Department of Elementary and Secondary Education - Mathematics (BSEd); Secondary Education/Mathematics (MSEd)
- Council for the Accreditation of Educator Preparation - Mathematics (BSEd); Secondary Education/Mathematics (MSEd)

Contact

Department Head

William O. Bray, PhD

Office

Cheek Hall, Room 10M

Phone

417-836-5112

Email

Mathematics@MissouriState.edu

Website

Math.MissouriState.edu

Department of Physics, Astronomy and Materials Science

Accreditations

- Missouri Department of Elementary and Secondary Education - Secondary Education/Physics (MSEd)
- Council for the Accreditation of Educator Preparation - Secondary Education/Physics (MSEd)

Contact

Department Head

Robert A. Mayanovic, PhD

Office

Kemper Hall, Room 101

Phone

417-836-5131

Email

Physics@MissouriState.edu

Website

Physics.MissouriState.edu

Reynolds College of Arts, Social Sciences and Humanities

Academic Units

Schools

School of the Arts (Department of Art and Design, Department of Music, Department of Theatre and Dance)

School of Communication (Department of English, Department of Communication, Media, Journalism and Film)

School of Criminology and Criminal Justice

School of Defense and Strategic Studies (Department of Military Science)

School of Humanities and Social Sciences (Department of History, Department of Languages, Cultures and Religions, Department of Political Science and Philosophy, Department of Sociology, Anthropology, and Gerontology)

Contact

Dean

Shawn T. Wahl, PhD

Associate Deans

Jason R. Jolley, PhD
D. Jake Simmons, PhD

Office

Craig Hall, Room 106 and Strong Hall, Room 251

Phone

417-836-5247

Email

ReynoldsCollege@MissouriState.edu

Website

<https://rcash.missouristate.edu/default.htm>

School of Criminology and Criminal Justice

Contact

Director

Brett E. Garland, PhD

Office

Strong Hall, Room 231

Phone

417-836-3799

Email

Criminology@MissouriState.edu

Website

Criminology.MissouriState.edu

School of Defense and Strategic Studies

Contact

School Director

General John Rose, PhD

Office

Hunters Branch, 9302 Lee Highway, Suite 760

Phone

703-218-3565

Email

dss1@missouristate.edu

Website

dss.missouristate.edu

Department of Art and Design

The Department of Art and Design is an academic department within the School of the Arts.

Accreditations

- Council for the Accreditation of Educator Preparation - Art Education (BSEd)
- Missouri Department of Elementary and Secondary Education - Art Education (BSEd)
- National Association of Schools of Art and Design - Art (BFA), Art Education (BSEd), Design (BFA), Electronic Arts (BS), Visual Arts and Culture (BA), Master of Art Education (MAE), Visual Studies (MFA)

Contact

Department Head

Vonda K. Yarberry, MFA

Office

Brick City (building 1), 327 W. Mill St., Suite 100

Phone

417-837-2330

Email

ArtandDesign@MissouriState.edu

Website

Art.MissouriState.edu

Department of Communication, Media, Journalism and Film

The Department of Communication, Media, Journalism and Film is an academic department within the School of Communication.

Accreditations

- Missouri Department of Elementary and Secondary Education - Speech and Theatre Education (BSEd)
- Council for the Accreditation of Educator Preparation - Speech and Theatre Education (BSEd)

The Center for Dispute Resolution

The Center for Dispute Resolution (CDR) is an organization located in the Department of Communication, Media, Journalism and Film and the Reynolds College of Arts, Social Sciences and Humanities. The CDR provides education, resources, and services that give individuals, organizations, and communities the tools they need to productively communicate and manage conflicts.

Contact

Interim Department Head

Deborah L. Larson, PhD

Office

Craig Hall, Room 376

Phone

417-836-5218

Email

CMJF@MissouriState.edu

Website

MissouriState.edu/CMJF

Department of English

The Department of English is an academic department within the School of Communication.

Accreditations

- Missouri Department of Elementary and Secondary Education - English (BSEd); Secondary Education/English (MSEd)
- Council for the Accreditation of Educator Preparation - English (BSEd); Secondary Education/English (MSEd)

Restriction on use of English courses for majors and minors in the Department of English

1. English courses counted toward the major cannot be counted toward the minor.
2. English courses counted toward the major or minor cannot be counted toward the BA Fine Arts requirement.
3. With the exception of ENG 110, ENG 210 and ENG 221, English courses counted toward the major or minor can also be counted toward the General Education requirements.

Contact

Department Head

Linda T. Moser, PhD

Office

Siceluff Hall, Room 215

Phone

417-836-5107

Email

English@MissouriState.edu

Website

English.MissouriState.edu

Department of History

The Department of History is an academic department within the School of Humanities and Social Sciences.

Accreditations

- Missouri Department of Elementary and Secondary Education -History (BSEd); Secondary Education/History (MSEd); Secondary Education/Social Sciences (MSEd)
- Council for the Accreditation of Educator Preparation - History (BSEd); Secondary Education/History (MSEd); Secondary Education/Social Sciences (MSEd)

Contact

Department Head

Kathleen A. Kennedy, PhD

Office

Strong Hall, Room 410

Phone

417-836-5511

Email

History@MissouriState.edu

Website

History.MissouriState.edu

Department of Languages, Cultures and Religions

The Department of Languages, Cultures and Religions is an academic department within the School of Humanities and Social Sciences.

Accreditations

- Missouri Department of Elementary and Secondary Education - Modern Language/Teacher Certification in Chinese, French, German, Japanese, Latin, and Spanish (BS)
- Council for the Accreditation of Educator Preparation - Modern Language/Teacher Certification in Chinese, French, German, Japanese, Latin, and Spanish (BS)

Bachelor of Arts Language Requirement

All students pursuing a Bachelor of Arts degree must complete a language requirement of 12 hours. Students may complete 12 hours in a single language offered by the Department of World Languages and Cultures to meet this requirement. Students with advanced proficiency in a language other than English may be exempted from this requirement with approval from the head of the Department of World Languages and Cultures.

Bachelor of Arts Fine Arts Restriction

Literature courses in this department will count toward the Fine Arts requirement provided those courses have not also been used to meet the foreign language requirement.

Foreign Language Institute

The Foreign Language Institute is a Missouri State-led partnership among five Springfield-area institutions of higher learning. Its purpose is to expand opportunities for students at all of the partner schools and in the broader community to learn languages, particularly those identified as critical or "less commonly taught" languages. Detailed information is listed here: [Foreign Language Institute](#)

[Contact](#)

Department Head

Stephen C. Berkwitz, PhD

Office

Siceluff Hall, Room 223 (Languages) Strong Hall, Room 282 (Religious Studies)

Phone

417-836-5514

Email

LCR@MissouriState.edu

Website

MissouriState.edu/LCR

Department of Music

The Department of Music is an academic department within the School of the Arts.

Accreditations

- National Association of Schools of Music - Music (BA, BS, MM); Music/Performance (BMus); Music/Composition (BMus); Music Education (BME); Musical Theatre (BFA)
- Missouri Department of Elementary and Secondary Education - Music Education (BME); Secondary Education/Music (MSEd)
- Council for the Accreditation of Educator Preparation - Music Education (BME); Secondary Education/Music (MSEd)

Contact

Interim Department Head

Paula K. Paterson, EDD

Office

Ellis Hall, Room 200

Phone

417-836-5648

Email

Music@MissouriState.edu

Website

MissouriState.edu/Music

Department of Political Science and Philosophy

The Department of Political Science and Philosophy is an academic department within the School of Humanities and Social Sciences.

Accreditation

Network of Schools of Public Policy, Affairs, and Administration-Commission on Peer Review and Accreditation - Master of Public Administration (MPA)

[Contact](#)

Interim Department Head

Christopher T. Lynch

Office

Strong Hall, Room 307

Phone

417-836-5630

Email

PSP@MissouriState.edu

Website

MissouriState.edu/PSP

Department of Sociology, Anthropology and Gerontology

The Department of Sociology, Anthropology & Gerontology is an academic department within the School of Humanities and Social Sciences.

Contact

Department Head

Mary S. Willis, PhD

Office

Strong Hall, Room 451

Phone

417-836-5640

Email

SAG@MissouriState.edu

Website

MissouriState.edu/SAG

Department of Theatre and Dance

The Department of Theatre and Dance is an academic department within the School of the Arts.

Accreditations

- National Association of Schools of Theatre-Commission on Accreditation - Musical Theatre (BFA); Speech and Theatre Education (BSEd); Theatre (BA, BS); Theatre and Dance (BFA)
- Missouri Department of Elementary and Secondary Education - Speech and Theatre Education (BSEd)
- Council for the Accreditation of Educator Preparation - Speech and Theatre Education (BSEd)

General Education Program Restriction

Students seeking a Bachelor of Fine Arts degree within the Theatre and Dance department may not use courses toward both the major requirements and the general education requirements.

Bachelor of Arts Fine Arts Restriction

Students seeking a Bachelor of Arts degree in Theatre may not use courses toward both the major and the Fine Arts requirement.

Contact

Interim Department Head

Christopher J. Herr, PhD

Office

Craig Hall, Room 355

Phone

417-836-4400

Email

TheatreandDance@MissouriState.edu

Website

TheatreAndDance.MissouriState.edu

McQueary College of Health and Human Services

Academic Units

Schools

- School of Anesthesia
- School of Mental and Behavioral Health
- School of Nursing

Departments

- Department of Biomedical Sciences
- Department of Communication Sciences and Disorders
- Department of Kinesiology
- Department of Occupational Therapy
- Department of Physical Therapy
- Department of Physician Assistant Studies
- Department of Public Health and Sports Medicine

Centers/Clinics

- Learning Diagnostic Clinic
- MSUCare
- Physical Therapy Clinic
- RStats Institute
- Speech-Language-Hearing Clinic

Contact

Dean

Mark A. Smith, PhD

Associate Dean

Letitia J. White Minnis, PhD

Office

Professional Building Room 110

Phone

417-836-4176

Email

MCHHS@missouristate.edu

Website

MCHHS.MissouriState.edu

School of Anesthesia

Accreditation

- Council on Accreditation of Nurse Anesthesia Educational Programs - Doctor of Nurse Anesthesia Practice

Contact

School Director

Monika Feeney, DNAP

Office

O'Reilly Clinical Health Sciences Building, Room 305

Phone

417-836-5039

Fax

417-836-3225

Email

NurseAnesthesia@MissouriState.edu

Website

MissouriState.edu/Anesthesia

School of Health Care Professions

Contact

School Director

Michael, Bird PhD

Office

Athletic Training-Ann Kampeter Health Sciences Hall, Room 160

Communication Sciences and Disorders-Ann Kampeter Health Sciences Hall, Room 237

Occupational Therapy-O'Reilly Clinical Health Sciences Center, Suite 203

Physical Therapy-McQueary Family Health Sciences Hall

Physician Assistant Studies-O'Reilly Clinical Health Sciences Center, Suite 200

RStats Institute-McQueary Family Health Sciences Hall, Suite 112

Phone

417-836-4176

Email

SHCP@MissouriState.edu

Website

www.missouristate.edu/SHCP/default.htm

School of Health Sciences

Contact

School Director

Tona Hetzler, EdD

Office

Biomedical Sciences-Ann Kampeter Health Sciences Hall, Room 300

Kinesiology-McDonald Arena, Room 103

Public Health and Sports Medicine-Ann Kampeter Health Sciences Hall, Room 160

Phone

417-836-8924

Email

SHS@MissouriState.edu

Website

<https://www.missouristate.edu/SHS/default.htm>

School of Mental Health and Behavioral Sciences

Accreditation

Council of Applied Master's Programs in Psychology (certification only) - Psychology option in Industrial-Organizational (MS)

Contact

School Director

William P. Deal, PhD

Office

Counseling-Park Central Office Building 156

Psychology-Hill Hall, Room 319

Social Work-Pummill Hall 105

Phone

417-836-5745

Email

PaulDeal@MissouriState.edu

Website

<https://www.missouristate.edu/SMHBS/default.htm>

School of Nursing

Accreditation

- Commission on Collegiate Nursing Education - all bachelor and graduate programs
- The Pre-licensure 4-year nursing program leading to a Bachelor of Science in Nursing meets full approval of the Missouri State Board of Nursing.

Contact

School Director

Kathryn Patterson, DNP

Office

Ann Kampeter Health Sciences Hall, Room 200

Phone

417-836-5310

Email

Nursing@MissouriState.edu

Website

MissouriState.edu/Nursing

McQueary College of Health and Human Services Programs

William H. Darr College of Agriculture

Academic Units

Schools

- School of Agricultural Science and Conservation
- School of Hospitality and Agricultural Leadership

Facilities

- Facilities (Mountain Grove Campus, Darr Agricultural Center, Fruit Experiment Station, Shealy Farm, Journagan Ranch, Kindrick Family Farm, The Woodlands, Baker's Acres)

Contact

Dean

Melissa A. Bledsoe, PhD

Office

Karls Hall, Room 201

Phone

417-836-5638

Email

Agriculture@MissouriState.edu

Website

ag.MissouriState.edu

School of Agricultural Science and Conservation

Contact

Director

Lacy D. Sukovaty, PhD

Office

Karls Hall, Room 201

Phone

417-836-5638

Email

Agriculture@MissouriState.edu

Website

AG.MissouriState.edu/EPSNR

AG.MissouriState.edu/AS

School of Hospitality and Agricultural Leadership

Accreditation

Accreditation Commission for Programs in Hospitality Administration - Hospitality Leadership (BS)

Contact

Director

Kara Wolfe, PhD

Office

Pummill Hall, Room 300

Phone

417-836-4409

Email

Agriculture@MissouriState.edu

Hospitality@MissouriState.edu

Website

AG.MissouriState.edu/AAEC

Hospitality.MissouriState.edu

Graduate College

Contact

Associate Provost and Dean

Julie J. Masterson, PhD

Interim Associate Dean

Carrisa Hoelscher, PhD

Office

Carrington Hall, Room 306

Phone

417-836-5335

Graduate Admissions

417-836-5331

Email

GraduateCollege@MissouriState.edu

Website

Graduate.MissouriState.edu

Professional Studies, Interdisciplinary & Individualized Programs

General Information

Missouri State University encourages interdisciplinary research and recognizes that the careers of many students will be enhanced through graduate programs that connect knowledge and perspectives from different disciplines. Interdisciplinary programs fulfill a special niche for students that recognize they may have multiple career needs that draw upon various knowledge bases.

The Master of Business Administration and the Master of Natural and Applied Science are interdisciplinary programs within their respective colleges. Program descriptions can be found under the College of Business and College of Natural and Applied Science sections.

Three graduate programs, the Master of Professional Studies, the Master of Science in Interdisciplinary Studies, and the Master of Science in Education, Secondary Education, cut across a number of colleges and programs.

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Academic Policies & University Information

All Missouri State University policies regarding courses, programs, program accreditation, academic regulations and degree requirements are applicable regardless of delivery method or location.

Academic Policies

In addition to satisfying all degree requirements below, students should be familiar with all academic policies and procedures. These policies may change from year to year and such changes apply to all future, current, continuing, and returning students. Students are encouraged to consult with their academic advisor, the Graduate College or the Office of the Registrar if they have questions regarding an academic policy.

A list of commonly referred to academic policies and procedures can be found here: [Quick Glance-Academic Policies and Procedures](#) . However, all academic policies are located in the University's policy library.

General University Information

- [About Missouri State \(Campuses; Centers for Research and Service; Governance; History of the University; and Mission, Vision and Values\)](#)
- [Academic Calendar](#)
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- [Glossary of Terms](#)
- [Office of the Provost](#)
- [Office of Undergraduate Admissions](#)
- [Office of Graduate Admissions](#)
- [Office of Financial Aid](#)
- [Office of Financial Services](#)
- [International Services](#)
- [Residence Life, Housing and Dining Services](#)

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Degree audits are designed to assist the student, advisor, and University in tracking student progress toward completion of all applicable degree requirements. This degree audit report matches completed, in-progress, and registered courses with all requirements of a specified degree program to determine which requirements have or will be met and which requirements are deficient or not yet completed. The degree audit will then list what is needed to complete the requirement. The degree audit is designed to be used as an advisement tool. Final confirmation of degree requirements is subject to University approval.

Intercession

Intercession classes are considered to be part of the following semester for purposes of admission, financial aid, registration, overloads, grading, scholastic action, and graduation. Fall Intercession is part of the Fall semester; Winter Intercession is part of the Spring semester; and Summer Intercession is part of the Summer Session.

Veterans Benefits

In compliance with the Veterans Benefits and Transition Act of 2018, Missouri State will not impose any penalty, including the assessment of late fees, the denial of access to classes, libraries or other institutional facilities, or the requirement that a Chapter 31 or Chapter 33 recipient borrow additional funds to cover the individual's inability to meet his or her financial obligations to the institution due to the delayed disbursement of a payment by the U.S. Department of Veterans Affairs provided the student.

Course Numbering System and Guide to Course Descriptions

- Course Numbering System (Fall 2009 to Present)
- Course Description
- Credit and Contact Hours
- Prerequisite and Corequisite
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Course Numbering System (Fall 2009 to Present)

Number	Definition
000-099	Background courses
100-199	Lower division courses designed primarily for freshmen
200-299	Lower division courses designed primarily for sophomores
300-399	Upper division courses designed primarily for juniors
400-599	Upper division courses designed primarily for seniors
600-799	Graduate courses designed primarily for master's level study
800-899	Upper-level graduate courses primarily for students in specialist or doctoral programs
900-999	Upper-level graduate courses primarily for students in doctoral programs

Course Description

In addition to providing a brief description of the course content, it also includes:

- Pass/Not Pass grading options.
- Repeat limitations.
- Limitations on course applicability to degree requirements.
- Courses that have both an undergraduate and graduate version (example: ACC 504 and ACC 604) or both a master's and doctoral version (example: OTE 610 and OTE 710) are noted. Students who enroll in either course meet in the same room at the same time with the same instructor. The higher level version of the course must require appropriate coursework. Such courses are identified in the semester class schedule as "cross-listed" courses.
- Periodicity indicating anticipated semester when the course may be offered.

Credit and Contact Hours

- *Credit hours* represent a unit of academic credit measured in semester hours. Some courses may be offered for a range of credit hours. Learn more: Credit Hours and Semester System Policy.
- *Lecture* contact hours represents the number of hours per week the class will meet in a lecture environment(based on a 15-week semester).
- *Lab* contact hours represents the number of hours per week the class will meet in a laboratory environment(based on a 15-week semester).
- *Clinical* contact hours represents the number of hours per week the course will meet in clinical experiences outside the classroom and may not be indicated as lab hours. Normally clinical hours will require three or more hours per week per hour of credit. Some typical clinical courses are Nursing, Occupational Therapy, and Physical Therapy.
- *Courses* with no standard lecture or laboratory contact hours indicates class time is spent outside the normal classroom environment (i.e., field study, internships, practicums, research, service learning, supervised teaching, thesis, etc.)

Prerequisite and Corequisite

- A prerequisite may consist of one or more background courses, appropriate placement score, admission to a specific program of study, or departmental permission. The student is responsible for having the appropriate prerequisites prior to the beginning of the class. If any academic department determines that a student does not have the appropriate prerequisite, registration for the class may be cancelled either prior to or after classes begin. Questions concerning the prerequisite should be directed to the academic department offering the course.
- Some courses may require concurrent enrollment in another course during the same semester. Such courses are identified in the semester class schedule as needing a "corequisite".
- Prerequisites and corequisites change over time and are not dependent on the student's catalog of graduation. The registration system will enforce prerequisites and corequisites that are in effect for the semester of registration.

Variable Content Course

The *variable* content course statement indicates course is defined as one having in either its course title or its description any of the following terms: variable content, special topics, issues, problems, seminars, projects, independent study, or readings. Variable content courses include any courses that may be substantially different from one semester to another. Also included in this category are special problems, special projects, readings, and research conducted on a tutorial basis with individual students. Unless otherwise stipulated in the course description, a variable content course may be taken only once for credit.

Glossary of Terms

This reference guide is designed to assist in defining terms frequently used at Missouri State University and in Catalogs.

Academic Advisor A University employee who is committed to helping students meet their educational goals.

Academic Unit Leader administrative officer responsible for an academic unit within a department, school, or college.

Academic Year Begins in August with the fall Intersession, continues through the spring semester, and concludes with the summer sessions.

Accelerated graduate program option that allows eligible juniors and seniors to take a limited number of graduate-level courses that count towards both their undergraduate and graduate degree.

Alumni Individuals who have attended or graduated from the university.

Admission to Degree Program A process required of students who have a major with specific admission requirements.

Auditing a Class A grading option that allows completion of a course without receiving credit or a traditional grade. An audited course cannot fulfill a degree requirement.

BearPass Card Student's official University identification card.

Block Classes meets for only the first or second half of the term (semester).

Board of Governors Governing body for Missouri State University appointed by the Governor of Missouri.

Boomer University mascot

Catalog University's official publication of courses, programs of study and academic policies and requirements.

Certificate Document representing that the student has completed a University Certificate.

Change of Schedule Period First five days of the term when students can add and drop classes.

Class Schedule An online listing of courses offered for a specific term.

College Group of academic departments, schools and programs administered by a college dean.

College Level Examinations Program (CLEP) Method of earning academic credit outside of traditional course offerings.

Commencement Ceremony held at the end of the fall and spring semesters to recognize candidates for graduation.

Comprehensive Major A BA or BS major that includes both a primary and secondary area of study and, therefore, does not require completion of a minor.

Core Courses Group of foundation courses required by a college, department, or specific major.

Co-requisite Two or more courses that must be taken during the same term.

Credit by Examination Method of earning academic credit outside of traditional course offerings.

Credit Hour Standard unit of measuring coursework. The unit of credit used at Missouri State is the semester hour.

Cross-Listed Courses Two or more different courses taught in the same room, at the same time, with the same instructor. Students may receive credit toward graduation for only one.

Dean (academic) Highest administrative officer of a college.

Dean's List Published list of students who have achieved a specific level of achievement established by the University.

Degree Audit Advising tool designed to assist in tracking a student's progress towards graduation.

Department Head Administrative officer holding faculty rank; responsible for a primary unit within an academic organization.

Diploma Document provided by the University certifying that the student has earned a degree.

Dual Credit Program in which students can earn college credit from Missouri State while in high school.

Dual Enrollment Refers to students who are concurrently enrolled in two or more higher education institutions.

Enrollment Status Indicates student's academic load (i.e., full-time, three-quarter time, half-time, less than half-time).

Good Standing Academic status of students who are not on probation or under suspension.

General Education Program Group of foundation courses required of all undergraduate degrees regardless of major.

Grade Point Numerical value given to grades (also referred to as quality points.) For example, four grade points per credit hour is awarded for a grade of "A".

Grade Point Average (GPA) Calculation derived from dividing the grade points earned by the number of credits attempted.

Hold Block which prohibits students from registering for classes or receiving a transcript or diploma. Most holds are due to an unpaid financial obligation, or failure to complete a required process.

Honors, Scholastic Designation indicated on the graduates' diploma and transcript that reflects outstanding scholarship.

Honors College Program Designed to serve the needs of academically talented, high-achieving students.

Identical Courses Those courses identified by multiple course codes and/or numbers that are taught in the same classroom, at the same time, and by the same instructor. Student may only receive credit toward graduation for one.

Incomplete Grade Assigned when a student has not completed all work for a class and the instructor agrees to allow additional time for completion.

Internship Work at a business or agency related to a student's major and/or career plans for which credit hours are awarded.

Intersession Brief period (typically 1-3 weeks) between semesters when a limited number of courses are offered.

Lower Division Undergraduate courses numbered lower than 300.

Major Collection of courses and requirements that is designated as the student's primary area of specialization. Appears on the student's diploma and transcript.

Minor Collection of courses indicating additional specialization in an area of study beyond the major. Minors do not appear on the student's diploma but are listed on the student's transcript.

Mixed Credit Courses that are part of an accelerated graduate program in which students earn both graduate and undergraduate credit.

Modality How, when and where a class is taught. Refer to the class schedule.

My Missouri State Website that provides access to personal student information, email, blackboard, online registration, and much more. A BearPass login is required to access the system.

Non-Comprehensive Major A BA or BS major that requires completion of a minor in order meet graduation requirements.

Non-resident Student who does not meet requirements for classification as a Missouri resident for fee purposes in accordance with the residence policy.

Non-traditional student Typically describes evening students, married students, students with children, and students of 22 years of age or older.

Option Sub-set of courses within the major that represent a specialized area of study. Officially approved options appear on the transcript but are not printed on the diploma.

Overload Semester credit hours that exceed the maximum number of hours permitted based on the student level (undergraduate or graduate). Permission is required for an overload.

Parallel courses Those courses that have both an undergraduate and graduate version (example: ACC 504 and ACC 604) or both a master's and doctoral version (example: OTE 610 and OTE 710). Students who enroll in either course meet in the same room at the same time with the same instructor. The higher level version of the course must require appropriate coursework. Parallel courses are identified in the semester class schedule as "cross-listed" courses.

Pass/Not Pass Grading option that allows students to pursue coursework without affecting their GPA.

PIE (Partners in Education) Program designed to facilitate communication between first-year students and their families. Through written consent of the student, members will have increased access to their student's information.

Postbaccalaureate A nondegree seeking classification of student who has earned a bachelor's degree and wishes to take additional classes but not pursue an additional undergraduate degree or a graduate degree.

Prerequisite Specific requirements that must be met prior to enrolling in a given class. Prerequisites may consist of courses, test scores, or enrollment in a specific program of study.

Probation Status that indicates unsatisfactory academic progress. Students may be subject to academic load limitations and other restrictions.

Program of Study Another name for a major.

Readmission Admission process followed by a student who wishes to enroll after a absence of one full calendar year.

Registration Restriction A type of prerequisite that requires student be in a specific major in order to enroll in the class.

Reinstatement Process by which a suspended student appeals to return to the university.

School Director administrative officer responsible for an academic school within a college.

Semester Also, referred to as a "term". Instructional period of 15 weeks plus a final examination period offered twice a year. Additional instructional periods include intersessions and summer sessions.

Senior Permission Allows students to take graduate coursework while still classified as an undergraduate.

Service Learning Program which allows students to earn academic credit in selected courses in exchange for meaningful and productive community service.

SOAR (Student Orientation, Advisement, and Registration) Program designed to assist students and their families in making a successful transition to university life.

Student Services Fees Required fees assessed at the time of registration that cover the student's access to a variety of services, programs, and activities.

Suspension Status that prevents a student from enrolling in classes unless reinstatement is granted by the dean of the college of the student's major.

Syllabus Document describing the objectives, outcomes, assessment activities, and structure of a class that is made available to students during the first week of classes.

Term Another name for a semester or summer session.

Transcript Serves as the student's official academic record of classes and grades received and degrees awarded.

Transfer Credit Classes taken at another institution and accepted as college credit at Missouri State.

Transfer Student Student who has completed 24 or more transferable credit hours *after* high school graduation.

Tuition The amount of money that must be paid for classes. Other fees may be assessed in addition to tuition.

Upper Division Undergraduate courses numbered 300 and above.

"W" Grade Indicates student withdrew from (dropped) a class without academic penalty.

Graduate Degree Requirements

Op3.19-1 Graduate Program Requirements

To complete a master's or specialist degree, a candidate must:

1. Complete the minimum number of credit hours required for the graduate program. Keep in mind that courses taken for undergraduate credit may not be used for a master's or specialist degree.
2. Complete at least one-half of the minimum semester hours in courses numbered 700 or higher, which signifies that the courses have no associated undergraduate parallel. Graduate courses provide a graduate-level experience and differ from undergraduate courses in the expectations/requirements.
3. Fulfill no more than 49% of the required semester hours by combining senior permission (up to 12 hours), courses taken prior to admission to the program (up to 30%), transfer (up to 30%), and assessment of prior learning.
4. Attain a grade point average of at least 3.0 on all graduate work utilized in the degree program.
5. Satisfy a research requirement, such as a thesis (reflected by enrollment in a course numbered 799), seminar/degree paper, capstone project or internship.
 1. A maximum of 6 hours of thesis or internship credit can be applied to the degree.
 2. Theses must be supervised by an advisory committee consisting of at least three persons who hold MSU graduate faculty status. The chair must hold graduate research faculty status
6. Complete a culminating assessment of student learning, such as a comprehensive examination or professional presentation.
7. Meet all additional program-specific degree requirements; and
8. Complete all requirements within an eight-year period (exclusive of time spent in the U.S. Armed Forces).

To earn a doctoral degree, a candidate must:

1. All students must complete the stated courses and minimum number of required credit hours for the program. Keep in mind that courses taken for undergraduate credit may not be used for a doctoral degree.
2. Complete at least one-half of the minimum semester hours in courses numbered 700 or higher, which signifies that the courses have no associated undergraduate parallel.
3. Fulfill no more than 49% of the required semester hours may be by combining senior permission (up to 12 hours), courses taken prior to admission to the program (up to 30%), transfer (up to 30%), and assessment of prior learning;
4. Attain a grade point average of at least 3.0 on all graduate work utilized in the degree program.
5. Complete a doctoral research project, capstone, or a doctoral thesis.
 1. A doctoral research project must be overseen by a committee that consists of at least three (3) members. The Director must be a faculty member from the discipline (usually the Academic Unit) and hold Graduate status (may be Research or Professional), and the other members must have expertise in the area of project focus.
 2. A doctoral thesis must be overseen by a committee that consists of four (4) members. The Chair (Director) of the doctoral thesis committee must hold Graduate Research Faculty Status. Two members of the committee must hold Graduate faculty status (may be Research or Professional). The fourth committee member must come from outside the academic unit and have expertise in the area of research focus.
6. Presentation of the research results (thesis or project) at a forum approved by the academic unit.
7. Complete a culminating assessment of student learning, such as a comprehensive examination or professional presentation;
8. Meet all additional program-specific degree requirements.
9. Complete all degree requirements within an eight-year period (excluding time spent in the United States Armed Forces).

Op3.19-6 Comprehensive Examination

1. The Comprehensive Exam

All graduate degree programs are required to conduct a culminating assessment of student learning. Some graduate programs do this in the context of a capstone course, and others require that students pass a comprehensive examination in order to be awarded

a degree. Comprehensive examinations vary in format and structure, as well as the times they are administered. In order to facilitate successful performance on their comprehensive examination, graduate programs must:

1. provide adequate information regarding format and content of the examination and the time(s) it will be offered in order to promote optimal preparation;
2. validate evaluation or scoring procedures;
3. provide detailed feedback if the examination is not initially passed, including specific examples of unacceptable performance and offer additional support in an effort to assist the student in meeting expected levels of performance;
4. give at least one opportunity to re-attempt the examination if not initially passed within a reasonable timeline and specify the maximum number of repeat attempts allowed before recommending dismissal.

The department must forward results of the comprehensive examination to the Graduate College no later than the last day of class in a semester. These results will be entered into the University system (Banner) and will be reflected in the student's degree audit.

2. Program Dismissal Due to Failed Comprehensive Examination

If a student does not pass the program's comprehensive examination after all re-attempts have been exhausted the Academic Unit Leader will schedule a meeting with the student to provide written notice to the student that the student will be dismissed from the program at the end of the current semester due to a failure to pass the comprehensive examination.

3. Limited Grounds for Appeal of Program Dismissal Due to Failed Comprehensive Examination

The student may appeal this program dismissal when it is clearly established by the student that one or more of the following has occurred:

1. The comprehensive examination was conducted in a way that represented a departure from the Program's previously communicated standards, and such departure was substantial, unreasonable, and unannounced.
2. There was a clerical or administrative error in the calculation of the comprehensive examination.
3. The graduate program failed to satisfy the requirements set forth in Section 1.

Generally, once the student has begun the appeal process they will not be allowed to modify the grounds selected justifying such appeal or to submit additional information in support of their appeal. However, if the student becomes aware of information that was not available at the time they submitted the written notification required in this Policy, they may supplement/add grounds to reflect this new information. If, at any point in the appeal process, the student modifies the grounds for their appeal, or provides additional information that was not previously available, the faculty member(s) of record will be notified and will be given five (5) business days to review the additional information submitted by the student and to provide a written response to same.

4. Procedure for Disputing Program Dismissal for Failed Comprehensive Examination

In order dispute program dismissal under this Policy, the student must follow the following procedures:

1. **Appeal to the Academic College Dean.** Following notification of the student's dismissal from the program, the student must prepare a written notification of the student's intent to appeal the dismissal from the program. The notification must i) clearly identify which of the categories in Section 3 serves as the basis for the dismissal dispute, ii) include sufficient detail to convey the factual circumstances that support the category for appeal, and iii) include the student's proposed remediation strategy. The student must provide notification to the Academic College Dean within five (5) business days of receiving notification from the Academic Unit Leader of dismissal from the program. The Dean will consider the student's written notification as well as the Academic Unit Leader's written notice to the student, and may confer with both and/or request any supplemental information from either the student and/or faculty they deem necessary. The Dean will inform both parties of their recommendation in writing within five (5) business days of receiving the notification by the student. If the Dean agrees with the student's written notification and remediation, the Dean will notify the student and Academic Unit Leader, and the student will not be dismissed from the program, but instead proceed with the remediation as identified in the student's submission. If the Dean agrees that program dismissal is appropriate, or fails to respond within the five (5) business day period, the student must proceed with the appeal to the Provost as outlined in Section 4.C.
2. **Appeal to the Dean of the Graduate College.** If the student is unsuccessful in resolving the program dismissal following submission of written notification to the Academic College Dean (or if the Academic College Dean has not responded within five (5) business days of submitting written notification to Academic College Dean), the student should submit written notification to the Graduate College Dean. The Graduate College Dean will consider the entire

written record produced through the appeal process. The Graduate College Dean will inform all parties its determination, in writing, within five (5) business days of receiving the appeal by the student.

3. **Appeal to the Provost.** If the student is unsuccessful in resolving the program dismissal following submission of written notification to the Graduate College Dean (or if the Graduate College Dean has not responded within five (5) business days of submitting written notification to Graduate College Dean), the student should submit written notification to the University Provost. The University Provost, or designee, will consider the entire written record produced through the appeal process. Additionally, the Provost (or Provost's designee) will consult with the Office of General Counsel to ensure compliance with University policy and that adequate due process has been provided. The Provost (or Provost's designee) will inform all parties its determination, in writing, within five (5) business days of receiving the appeal by the student. The decision of the Provost (or Provost's designee), is final.
1. **5. Exceptions to Dispute Procedures** Nothing in this policy is intended to circumvent the University's Discrimination Complaint and Investigation Procedures. Students who dispute their course grade due to allegations of discrimination based on a protected classification should direct their complaint to the be addressed to the Office for Institutional Equity and Compliance, Carrington Hall, 205, Springfield, Missouri, 65897; Equity@MissouriState.edu; 417-836-4252; TTY: 417-836-6974. Such complaints will be handled through the Discrimination Complaint and Investigation Procedures.

Thesis Option

A maximum of 6 hours of thesis credit shall be applied toward the minimum hours required for a master's degree. Guidelines explaining the requirements for the preparation of a thesis are available through the Graduate College-Thesis Resources. Registration in a course number 799 and title designated "thesis" is limited to students pursuing completion of a thesis. A thesis is supervised by the student's advisory committee, which consists of three to five persons. A minimum of three, including the chair of the committee, must be members of the Missouri State University Graduate Faculty. The thesis shall be approved by the committee and by the Graduate College before the degree is granted.

Seminar/Degree Paper Option

This option requires the completion of an extensive seminar/degree paper or creative work. The advisor for the degree paper must approve the final research paper. In some cases, evidence of fulfillment of the research requirement is shown through the successful completion of a certain course. In other instances, evidence requires the advisor to complete a seminar report form that is approved by the Graduate College. Students should check with their academic area to determine if this form is required. Academic areas may or may not require an advisory committee for students electing the seminar/degree paper option for meeting the research requirement.

Internship Option

A maximum of 6 hours of internship credit can be applied toward the minimum hours required for a master's degree. Guidelines explaining the requirements for the completion of an internship will be outlined by the academic area. An internship receives prior approval, and is supervised by a graduate faculty member and the internship site supervisor.

Workshops

No more than five credit hours of graduate course work completed in workshops may be applied to the minimum hours required for a masters degree.

Graduate Certificate Policies & Requirements

Op3.19-1 Graduate Program Requirements

To earn a graduate certificate, a candidate must:

1. Complete the minimum number of credit hours required for the graduate program. Keep in mind that courses taken for undergraduate credit may not be used for a graduate certificate.
2. Attain a grade point average of at least 3.0 on all graduate work utilized in the program that includes Missouri State University and transfer courses.
3. Meet all additional program-specific certificate requirements; and
4. Complete all requirements within an eight-year period (exclusive of time spent in the U.S. Armed Forces).

Graduate Policies & Procedures

Graduate Classifications

Degree-Seeking

Students who wish to enroll in graduate-level courses to pursue a specific graduate degree at Missouri State University. Students seeking admission under this classification can contact the Graduate College at 417-836- 5331 or apply online (<https://www.MissouriState.edu/FutureStudents/apply-now.htm>).

Nondegree-Seeking (Unclassified)

Students who meet the general Graduate College requirements but are undecided on a specific degree or who wish to take courses for graduate credit are eligible for admission as a nondegree-seeking student.

Under this classification, students may register for courses for which they meet the prerequisite. They are not candidates for a degree and this classification does not offer assurance of future admission to a degree program. Generally, students in this classification are not eligible for financial aid. Graduate courses (600-level and above) taken as a nondegree-seeking student or a post baccalaureate student will be counted in the student's graduate GPA. Graduate courses taken as a nondegree-seeking graduate student may be used toward a graduate degree if later admitted, but this use is limited to 30% of the required hours in this degree. Any C+ grade or below may jeopardize a student's ability to enter into a degree program. Students seeking admission under this classification can contact the Graduate College at 417-836-5331 or apply online (<https://www.MissouriState.edu/FutureStudents/apply-now.htm>).

NOTE: A student may request a change from nondegree-seeking to a degree-seeking basis, or a change from one academic program to a different academic area of study. In these cases, acceptance into the program requested is based on the review and recommendation of the department. A new graduate application must be completed indicating the new planned program of study - apply online (<https://www.MissouriState.edu/FutureStudents/apply-now.htm>).

Postbaccalaureate

Students admitted into the postbaccalaureate classification have not been admitted to the Graduate College; they have only been given permission to enroll for graduate-level courses to earn graduate credit. A postbaccalaureate student is not required to furnish the application fee or transcripts and there is no minimum grade point average for admission. Enrollment as a postbaccalaureate student does not guarantee future admission into a specific degree program.

Postbaccalaureate students may take either undergraduate or graduate courses. Graduate courses taken as a nondegree-seeking graduate student (postbaccalaureate or graduate-undecided status) may be used toward a graduate degree if later admitted, but this use is limited to 30% of the required hours in the degree. Graduate courses (600-level and above) taken as a postbaccalaureate student will be counted in the student's overall graduate GPA. Any C+ grade or below may jeopardize the ability to enter into a degree program.

Students under this classification have completed a bachelor's degree and are graduate students. They are therefore governed by all Graduate College policies. Post-baccalaureate students must make satisfactory progress in graduate courses and any student receiving more than 9 hours of "C+" grade or below will not be allowed to enroll in further classes.

Generally, students in the postbaccalaureate classification are not eligible for financial aid. Students who first register in the postbaccalaureate classification and later initiate the process to change to a degree program will be required to submit the

Graduate Admission Application along with the application fee and necessary transcripts. The application will be reviewed by the Graduate College and the director of the degree program to which the student applied and the student will be notified of the decision.

Individuals interested in admission as a postbaccalaureate student should contact Missouri State Outreach: Continuing and Distance Education at 417-836-4126 or toll free 877-678-2005.

Post-Master's

Students who have received a master's or higher graduate degree and wish to continue taking course work for graduate credit without pursuing another graduate degree. In this category, students should apply through the Extended Campus office or the Graduate College.

Research Compliance Requirements

Missouri State University requires that all research involving human subjects in any way, regardless of the source of support funds, must be reviewed by the Protection of Human Subjects Institutional Review Board (IRB) before it is undertaken. Applicants are required to complete online training before engaging in projects involving human participants. The Privacy Rule of the Human Insurance Portability and Accountability Act (HIPAA) contains additional requirements for anyone conducting human participant research that involves protected health information; online training is available on HIPAA for researchers. Research involving recombinant DNA techniques and other biohazards (e.g., infectious or venomous agents) must be reviewed by the Institutional.

Biosafety Committee (IBC). The IBC reviews the proposed research and consults with researchers on biosafety procedures; trains faculty, staff, and students involved in biohazardous research to obtain compliance with appropriate rules; and does surveillance of laboratory accidents involving biohazardous agents. The U.S. Public Health Service (PHS) Policy on Humane Care and Use of Laboratory Animals requires institutions to establish and maintain proper measures to ensure the appropriate care and use of all animals involved in research, research training, and biological testing activities conducted or supported by the PHS. In accordance with this policy, the University requires that all projects proposing to use live vertebrate animals be reviewed and approved by the Institutional Animal Care and Use Committee (IACUC). Participation in animal care and use training is required for anyone involved in using animals in research or teaching. Students, faculty, and staff who work with animals in educational and research activities are required to enroll in the Animal Occupational Health and Safety Program. This includes those who handle or are exposed to animal tissues, fluids, secretions and/or excretions, as well as those who handle cages and other equipment potentially exposed to animal tissues or excretions.

Graduate College

Complete information on training and documentation requirements can be found online through the Office of Research Administration (<https://ORA.MissouriState.edu/default.htm>). All required training and documentation must be done prior to initiating research. No research will be accepted by the Graduate College if these requirements are not met.

Op3.19-7 Graduate Transfer Credit

On a case-by-case basis, Missouri State may accept graduate credit earned at other regionally accredited institutions or well-established international institutions. Acceptance of transfer credits on a graduate degree program occurs through recommendation of the student's major advisor and approval of the Graduate College. Transfer hours may count for up to 30% of the required hours for a degree. The policy on transfer credit also applies to students who are currently enrolled in, but have not completed, a graduate degree program at another institution. As with all credits applied toward a graduate degree, transfer credits must have been earned within the eight-year time limit for a degree program. Grades on transfer courses accepted in the degree program are included in the overall graduate grade point average.

Collaborative Agreements

The limitation on transfer credit may be superseded when the university develops a collaborative agreement with another institution for delivery of an academic program. In cases where Missouri State University shares program responsibility with another institution, both institutions may teach courses that might be applied to a degree program. For more information on a specific program, see the appropriate section of the catalog.

Op3.19-8 Second Master's Degree

A student who has been awarded a master's degree at Missouri State University or at another accredited institution may be approved to transfer up to 30% of the total hours required for the second degree at Missouri State University. All courses must be approved by the advisor. This same policy applies to a student who is admitted to and working on two degree programs at Missouri State University at the same time. All courses must be approved by the advisor. Anyone working on an advanced degree at another institution, but who has not completed the degree, may be approved to transfer up to 30% of the total hours required for the Missouri State University program of study. (See Transfer Credit (https://www.MissouriState.edu/Policy/Chapter3/Op3_19_7_TransferCredit.htm)).

Op3.19-9 Grade Requirements for Degree

No course with a grade "C-" or below may be applied toward a graduate degree or graduate certificate. A graduate student becomes ineligible to continue in the current graduate program if more than 9 semester hours of "C+" or lower are earned in graduate courses taken in the degree program, or if the student does not meet any additional specific degree retention requirements imposed by a department or program.

Op3.19-10 Graduation

The deadline for the Application for Graduation is the first week of the semester in which the student plans to graduate. A student is advised, however, to apply in advance of the semester that they intend to graduate.

1. Complete the online Graduate Application to Graduate located through My Missouri State.
2. Students should work closely with the advisor to ensure that all of the degree requirements are met.
3. Students who have completed all course work and are only working on their research component may sign up for GEN 798 (Active in Research). This zero credit course offered at a reduced fee (\$75) allows the following:
 - access to the library, including online services such as interlibrary loans, MOBIUS, and restricted access databases;
 - opportunity to purchase a parking permit; and
 - access to computer services and campus email.

GEN 798 is graded as "P" (pass) or "N" (if the student discontinues participation and is dropped from the course).

Graduate College Policies and Procedures

Senior permission and mixed credit forms

There are two special circumstances allowing an undergraduate student to enroll for graduate credit. A "Senior Permission" form is used by senior undergraduate students wishing to take 600- and above level courses that will count for graduate credit. This form must be completed at the time of registration and submitted in person to a registration center. Please note that courses designated for graduate credit will NOT apply to the undergraduate program. For more information, see Senior Permission listed under Graduate College: Special Academic Opportunities.

Undergraduate students accepted into an Accelerated Master's Program need to complete a "Mixed Credit" form for courses that will be utilized to satisfy both undergraduate and graduate degree requirements. This form must be submitted in person to a registration center. For more information, see Accelerated Masters listed under Graduate College: Special Academic Opportunities.

Graduate Admission Requirements

Admission to Graduate Study

Contact for graduate admission information:

Graduate Admissions

Missouri State University

Carrington Hall, Room 306

901 S. National Avenue

Springfield, MO 65897

Telephone: 417-836-5331

Fax: 417-836-6200

Email: GraduateAdmissions@MissouriState.edu

Admissions decisions are made by each graduate program, based on its admissions requirements, selection criteria, program capacity, and the quantity and quality of the applicant pool. Meeting the minimum admission criteria does not guarantee admission. When discriminatory, unfair, or unethical behavior is alleged, the admission decision can be appealed to the Head of the Department in which the graduate program is offered, and if unsuccessful, to the Dean of the Graduate College.

The university reserves the right to suspend or reverse an admission decision in the event that an applicant is charged or convicted with a crime or ethics violation prior to becoming a "student" (which occurs upon the first day of class attended), or the application package becomes suspect or incomplete (eg., letter of reference withdrawn, application document falsified, job history fabricated, etc.). The decision to suspend or reverse an admission decision is left to the discretion of the graduate program. This decision can be appealed to the Head of the Department in which the graduate program is offered, and if unsuccessful, to the Dean of the Graduate College.

Admission Procedures Admission Procedures

All graduate applications to MSU are collected through a centralized application service (CAS). Admission requirements and program deadlines are included in each CAS application. Applicants need to provide program- required materials, submit official transcripts showing coursework for the bachelor's degree and any graduate level work, and pay the application fee through the CAS. Required materials and fees vary by program and by CAS.

The chart below indicates the CAS to which students should apply based on desired program.

Program	CAS
Doctor of Audiology	CSDCAS
Doctor of Nursing Practice	NursingCAS
Doctor of Physical Therapy	PTCAS
Master of Athletic Training	ATCAS
Master of Science in Nursing	NursingCAS
Master of Occupational Therapy	OTCAS

Master of Science in Nutrition and Dietetics	DICAS
Master of Science in Physician Assistant Studies	CASPA
Master of Science in Communication Sciences and Disorders/Speech-Language Pathology	CSDCAS
Master of Social Work	SocialWorkCAS
Dietetics Internship Graduate Certificate	DICAS
Post-Master's Nurse Educator Graduate Certificate	NursingCAS
All other MSU graduate programs	GradCAS

Masters and Specialist Admission Requirements

Op5.01-4 Graduate Students Admission Policy

The Graduate Council sets the minimum standards for full admission to graduate study. Additional requirements and higher standards may be stipulated for specific graduate programs, and applicants should check for such requirements in the departmental section of this catalog. The minimum requirements for graduate admission are:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University, AND a cumulative grade point average of at least 2.75 on a 4.00 scale; OR at least a 2.75 grade point average on a 4.00 scale for the last 60 hours of academic course work; OR at least a 2.75 grade point average on a minimum of 9 hours of graduate credits; OR have a combined score of 290 (875 under the old scoring system before August 1, 2011) on the verbal and quantitative sections of the Graduate Record Examination; OR
2. A bachelor's degree from a college or university NOT accredited by an agency recognized by Missouri State University, a cumulative grade point average of at least 2.75 on a 4.00 scale; OR at least a 2.75 grade point average on a 4.00 scale for the last 60 hours of academic course work, AND a combined score of 290 (875 under the old scoring system before August 1, 2011) on the verbal and quantitative sections of the Graduate Record Examination; OR
3. A bachelor's degree from a college or university recognized by Missouri State University, AND recommendation in writing by both the department head of the student's desired major area and the dean of the college in which that discipline is located, and the approval of the Dean of the Graduate College.

Doctoral Admission Requirements

The standards for admission to a doctoral program are more stringent than for a master's program, in accordance with the higher demands of the degree. The admission standards for a particular program may be even higher than the following university-wide standards, and a program may have additional requirements. Therefore, applicants must review the section in this catalog that pertains to their particular doctoral program of interest, and contact the department for admissions criteria. As a minimum, applicants for a doctoral program must meet the following. Meeting the minimum admission criteria does not guarantee admission.

1. A minimum GPA of 3.00, either cumulative or for the last 60 credits of that degree.
2. Submission of a standardized test score may be required. Check individual program requirements.

Accelerated Masters Admission

Undergraduate students who apply for an accelerated master's degree **must** submit their application for the semester after which he/she will receive a bachelor's degree.

Bachelor's Degree Graduation Semester	Accelerated Master's Degree Application Semester
Spring 2023	Summer 2023 or Fall 2023
Summer 2023	Fall 2023
Fall 2023	Spring 2024
Spring 2024	Summer 2024 or Fall 2024

If admitted to an accelerated master's degree program and your bachelor's degree graduation semester should change, please notify the Graduate Admissions (GraduateAdmissions@MissouriState.edu) as soon as possible so that your information may be updated.

Readmission Requirements

The procedure for readmission of a graduate student who has not maintained continuous enrollment (summer excluded) is based on the period of absence:

Applied and/or accepted, but never attended or completed a class as a degree-seeking graduate student.

- If the time period has been less than one (1) year, students may send an email to Graduate Admissions (GraduateAdmissions@MissouriState.edu) requesting his/her graduate application and/or admission semester be changed.
 - Program exceptions are: Communication Sciences and Disorders, Counseling, Nurse Anesthesia, Nursing, Physical Therapy, Physician Assistant Studies, Psychology, and Social Work. Contact the appropriate program director for more information
- If the time period has been more than one (1) year, students will need to submit a new graduate application.

Previously attended and completed a graduate class as a degree-seeking graduate student.

- Complete a new graduate application.

Former Missouri State University graduate degree recipients.

- Students returning to take additional graduate classes and are not seeking an additional degree may be readmitted under the nondegree-seeking student classification. Contact Nondegree-Seeking Services at 417- 836-6929 or by email at NonDegree@MissouriState.edu for information regarding this process.
- Students who wish to pursue an additional graduate degree will need to complete new graduate application and provide any additional materials which are needed by the department/program.

NOTE: Any graduate student who wishes to pursue a second undergraduate degree at Missouri State University should contact the Office of Admissions (Undergraduate) at 417-836-5517 or Admissions@MissouriState.edu.

International Student Admission

Op5.09-2 International Graduate Students

Graduate Admission Requirements

Missouri State encourages applicants from around the world. To apply for admission, please follow these required steps:

1. **The International Student Application and Fee**

If you believe you are able to meet all requirements, we invite you to complete and return the "International Student Application" with the \$55 USD application fee (non-refundable). We must receive the application and fee before we can begin processing.

2. **Academic Requirements**

You must have completed a U.S. bachelor's degree or its equivalent from a recognized institution, with a 2.75 (U.S. scale) grade point average for the last 60 credit hours. Please refer to the Graduate Catalog for admission requirements for each individual graduate program. Official proof of any degree, diploma, certificate and/or transcript must be submitted for your file in the original language and a translated copy. If you have completed less than one year of study at a post-secondary institution, regardless of location or length of time attended, you must request these records as well. You must request official documents from each school you have attended. Official documents: To qualify as official, documents must be sent to the Missouri State Office of International Services directly from the issuing institution. Official copies of all documents must arrive before you file can be forwarded to the Office of Graduate Studies for admission consideration.

3. **Proof of English Proficiency**

Proof of your proficiency in English is required if your primary language is not English. Persons who have completed one or more years of university level study in the U.S. may be exempt at the discretion of the International Services Office. Proof can be provided in two ways:

1. **The Test of English as a Foreign Language (TOEFL)***

The TOEFL score minimum requirement is 79 or more for graduate applicants. You must request that original copies of these scores be sent to Missouri State directly from the Educational Testing Service. If you have a computer-based score, check here to see the equivalent paper based score: TOEFL Concordance Tables

2. **Graduate Study**

Students applying for graduate study (including those who have completed an undergraduate degree but do not yet meet the English requirements for graduate admission), should request an application to the Missouri State English Language Institute. Graduate Students

Test	Minimum Score
TOEFL-iBT (Internet-based test)	Score of 79 or more
IELTS	Score of 6.0 or more
Missouri State English Language Institute (ELI) program	Completion of EAP Graduate Caps

4. **Graduate Required Tests**

Tests Applicants to the Master of Business Administration and the Master of Accountancy programs must take the "Graduate Management Admission Test" (GMAT)*. Some graduate programs require the "Graduate Record Examination" (GRE)*. Scores for the appropriate test must be on file prior to admission. *Information and registration forms for the tests are also available at many U.S. Embassies and Consulates, offices of the U.S. Information Agency, and offices of international education organizations, such as the Institute of International Education (IIE), the African-American Institute (AAI), and the American-Mideast Educational and Training Services (AMIDEAST).

5. **U.S. Transfer Recommendation Form**

You must complete the transfer recommendation form if you are currently in the U.S. as an international student and are planning to continue your education at Missouri State. You must submit the transfer recommendation form to your current international student advisor who will mail or fax it to Missouri State International Services office. We cannot complete the I-20 Form until it is received. Be sure to sign the transfer form before submitting it to your current international student advisor.

*To register for the TOEFL or GRE see: www.ets.org

To register for the GMAT see: www.mba.com/mba/TaketheGMAT

Graduate College

NOTE: This section, plus the sections on Academic Policies & University Information, Graduate Degree Requirements, Graduate Certificate Policies, Graduate Policies & Procedures and Graduate Admissions Requirements, constitute the "Graduate Student Manual". All graduate students are expected to become familiar with these policies and procedures, as they describe the rights and responsibilities of graduate students at Missouri State University. It is not possible to cover all potential situations in these pages, so graduate students (current and future) should contact the Graduate College for clarification or more information. Specific departments and graduate programs may have additional policies, procedures, and requirements not covered in these sections.

In fulfilling its mission, the University adheres to a set of educational and administrative policies which are essential to the maintenance of a learning environment and which fosters a sense of community and public accountability.

The University is committed to freedom of thought and inquiry for both faculty and students. This commitment ensures that faculty have the freedom to teach, conduct research, exercise creativity, and publish in their professional capacity without restraint or fear of reprisals. Academic freedom is essential to the University's instructional and research activities. An open instructional environment is essential for the protection of the rights of faculty to teach and of the students' freedom to learn. Freedom in research and creativity is fundamental to the advancement of truth.

In return, faculty and students conducting research or other creative/scholarly activity as part of the academic enterprise do so in a responsible and ethical manner. Responsible conduct of research includes (but is not limited to) compliance with federal regulations related to the health/safety of the researchers, their subjects, and the environment. Training for specific compliance requirements, and information to prevent research misconduct or unethical research activities are available from the Office of Sponsored Research and Programs.

As a state-assisted public institution of higher education, Missouri State University is accountable for the fiscal management of funds received from public, business, philanthropic, and private sources. The University also recognizes its responsibility for educational outcomes relevant to individual and social needs, and for the effective administration of its programs. The University is committed to the concept of public accountability in the broadest sense. Such a commitment obligates the University to: (1) define institutional goals and priorities, (2) determine the degree to which goals are achieved, (3) identify and measure the outcome of its programs, and (4) measure the costs and benefits of programs. Inherent in those obligations is a commitment to systematic institutional planning and to continuous program review and evaluation to ensure maintenance of quality and excellence.

While it is impossible to specify all relevant University policies, the more salient ones are herein identified.

SELECTED UNIVERSITY POLICIES

- Code of Student Rights, Responsibilities, and Conduct
- Email Communication Policy
- Equal Opportunity and Affirmative Action Policy
- Expressive Activity Policy
- Non-Discrimination Policy
- Residency Status (for Tuition Purposes)
- Student Disability Accommodation Policy
- Student Rights (FERPA)

Graduate Council

The Graduate Council is the faculty governance structure that recommends policies governing graduate study to the Dean of the Graduate College. Each department offering a graduate program has one faculty representative on the Graduate Council. Each

interdisciplinary program also has a representative on the Council. The Graduate Council acts on curriculum matters, new programs, general policies and appointments to the Graduate Faculty. The Graduate Council is proactive in representing the needs of graduate education and proposing strategies to allow the Graduate College to fulfill its mission.

Graduate Faculty

Appointment to the Graduate Faculty is required for persons to teach courses open only to graduate students and to guide graduate students as advisors or as members of graduate advisory committees. Faculty members holding an earned terminal degree, with recognized competence in an area of specialization appropriate to graduate study, and meet the approved departmental criteria, may be approved as members of the Graduate Faculty. Normally, the Graduate Faculty is composed of individuals with the academic rank of Assistant Professor or higher in departments that offer graduate degree programs or supporting graduate courses. A limited number of faculty members without earned terminal degrees, but who are widely recognized as leaders in their academic disciplines, may become members of the Graduate Faculty. Faculty who are not full time employees of Missouri State University can become members of the Graduate Faculty through the same process, after being appointed as an Adjunct Faculty member through the Office of Human Resources. Refer to the Graduate Faculty Appointment (/FacultyStaff/FacultyAppointment.htm) web site for recommendation forms to initiate the process for Appointment to Graduate Faculty.

Graduate Student Senate

The purposes of the Graduate Student Council are to enhance communication among graduate students, to be a liaison between students and the Graduate Council, and to promote the general interests of graduate students.

Meetings are open to all currently enrolled graduate students in good standing at Missouri State University. The president of the Graduate Student Council (or designee) is a representative on the Graduate Council and is responsible for conveying the ideas, requests, questions and proposed policies from/to the Graduate Student Council. The Graduate Student Council provides a representative to the Faculty Senate, two representatives to the Senate of the Student Government Association, and makes appointments to several other committees. In addition, they sponsor several awards for graduate assistants and graduate mentors.

Frank Einhellig Graduate Interdisciplinary Forum. Annually, in the spring semester, the Graduate Student Senate, in conjunction with the Graduate College, co-hosts the Frank Einhellig Graduate Interdisciplinary Forum (IDF). This public affairs event allows graduate students to give oral and poster presentations of their research and creative projects. This forum is a tremendous educational experience for graduate students; participation is voluntary. Approximately 200 students present each year. For complete information on the IDF, see graduate.missouristate.edu (under Interdisciplinary Forum).

Additional information about the Graduate Student Council and the IDF may be obtained online at graduate.missouristate.edu (under New and Current Students).

Accelerated Graduate Programs

The Accelerated Masters degree option provides a transition that enables outstanding Missouri State University undergraduate students to begin taking graduate course work in their junior or senior year and thus combine components of the undergraduate and graduate curriculum.

Students must apply and be admitted to the accelerated masters program by the academic area and the Graduate College before registering for any courses to apply towards the graduate degree.

Depending on the program, 6 to 12 hours of graduate credits may apply toward completion of the undergraduate degree requirements. This dual counting of a course for both undergraduate and graduate credit will only occur when a student secures mixed credit approval prior to the semester the course is taken. Students accepted into an accelerated program must complete a form requesting mixed credit prior registration. Completion of this process is necessary for appropriate designation of course credit; this designation is a factor in Financial Aid determinations.

Under the Accelerated Masters degree option, a student will be fully admitted to the Graduate College upon completion of the baccalaureate degree. Undergraduate students interested in the Accelerated Masters opportunity should consult the Graduate Catalog and contact their department or Graduate Admissions (417-836-5331) to determine admission requirements and procedures.

Also, Missouri State University, Evangel University and Southwest Baptist University (SBU) have entered into agreements that provide for undergraduate students at Evangel and SBU to participate in Accelerated Masters programs at Missouri State University. The SBU arrangement is limited to the Accelerated Master of Accountancy program.

Senior Permission

Missouri State University seniors and visiting degree-seeking seniors from another institution who are classified as non-degree seeking while at Missouri State University, may be permitted to take 600- and above numbered course work for graduate credit. Senior permission enrollment is allowed during the last two semesters of a baccalaureate program upon the recommendation of the head of the department in which the course is offered and approval of the Graduate College. To be eligible, a student must have a grade point average of at least 3.00 on the last 60 hours of undergraduate course work. Courses completed for graduate credit under Senior Permission cannot be applied toward an undergraduate degree.

A senior student may enroll in a maximum of 9 semester hours of graduate credit during a semester, with a maximum enrollment of 15 hours, including both undergraduate and graduate course work. Students may not complete more than a total of 12 semester hours of graduate credit under Senior Permission. Credit earned under Senior Permission can be applied toward a graduate degree at Missouri State University with this application of credits contingent upon approval of the head of the academic area in which the course is offered and the Graduate College. Students should work with their advisors or program director to complete the required form for senior permission, prior to registration.

Graduate Assistantships

Graduate assistantships are available in many areas to assist students with expenses and to enhance learning while studying for advanced degrees at Missouri State University. Graduate assistantships are offered in both academic and administrative areas and involve teaching, research, and/or administrative responsibilities. Since the primary purpose of graduate assistantships is to aid students in the pursuit of advanced degrees, a student must be admitted into a graduate degree program or graduate certificate program at Missouri State to be eligible. Often, the assistantship assignment is related to the student's program of study. Students are encouraged to contact departments and offices directly regarding openings.

Assistantships begin the week prior to classes and continue through Commencement. Specific hours of employment are arranged between the student and the supervisor.

Commitment Date

Missouri State University supports the policy adopted by the Council of Graduate Schools (CGS) concerning assistantship offers (does not apply to admissions decisions). When a student accepts an offer of a graduate assistantship for the next academic year prior to April 15, this constitutes a letter of intent that is not considered binding but is a good faith agreement. On April 15, this agreement becomes a contract that is considered binding for both the students and the department/office that offered the assistantship, and both parties are expected to honor it. Any assistantship offered and accepted after April 15 is likewise considered immediately binding.

Students wishing to break this contract after April 15 must request from the department/office that awarded them the assistantship a written release from their contract. Similarly, students accepting an assistantship offer after April 15 who have already accepted an assistantship at another university must submit with this acceptance a letter from the other university releasing them from their contract.

Review the complete CGS resolution.

Eligibility

The graduate assistantship requires an average of 20 hours per week and provides a stipend (review the stipend policy). Generally, students are not allowed to engage in any other University employment while holding an assistantship. In rare cases, an assistantship may be awarded at quarter-time (10 hours per week) and would pay half the normal stipend. GA's must meet grade point average and enrollment requirements. Graduate assistantships typically may be held for a maximum of four semesters (not including summer). Students may hold an assistantship longer if pursuing a second program or a doctoral degree. Review specific information regarding graduate assistantship eligibility.

Fee Waiver Scholarship

Students who are awarded a graduate assistantship also are eligible to receive a limited fee-waiver scholarship, which can cover up to 110% of the graduate credits required for the program (review fee-waiver scholarship information). Students appointed on a graduate assistantship during the Spring semester are eligible for a fee waiver scholarship during the following Summer term. NOTE: Current law prevents students with Deferred Action for Childhood Arrival (DACA) status from receiving scholarships or other types of financial assistance directly from University, state or federal sources. A DACA status student may apply for graduate assistantships, but if selected, would be eligible to receive only the stipend portion as long as the student retains a valid work permit. This means the DACA status student would not be awarded the tuition and fee waivers. The current law does not prevent DACA status students from receiving scholarships sponsored by outside agencies or organizations. Such students may want to search for scholarships.

The G.A. fee waiver scholarship covers only the standard tuition for Missouri Residents or Non-Residents plus the Student Services Fee. The G.A. fee waiver scholarship does not pay for differential fees or other enrollment fees assessed for certain courses (regular or internet based instruction). The fee waiver scholarship also does not pay for student health insurance, books or other miscellaneous fees. Review the list of courses with these extra fees and the detailed rate for tuition and fees.

Application

An application for a graduate assistantship must be submitted directly to the department in which the assistantship is sought. It is wise to check with the department before applying. Application forms are available on the Graduate College website. Information requested from an applicant includes employment and academic history and references. Departments employing graduate assistants may request additional information.

International Students

International students can only work 20 hours maximum per week during the fall and spring semesters per U.S. Immigration law. Graduate students who did not receive both their primary and secondary education in a country where English was the primary language must meet certain requirements based on Missouri statutes to qualify for assistantships with teaching assignments. For complete information review the International Students/Foreign National Employees policy.

Teaching Assistant Orientation and Training

University

The Graduate College provides an intensive orientation prior to the Fall semester for all new graduate teaching assistants. A condensed version of this orientation is also offered prior to the spring semester. All new teaching assistants must participate in this pre-semester orientation.

Departments

In most cases, academic departments provide formal orientation and training sessions for their teaching assistants.

Scholarships

Missouri Outreach Graduate Opportunity (MOGO) Scholarship

The Missouri Outreach Graduate Opportunity (MOGO) Scholarship provides a partial remission of out-of-state tuition for full-time graduate students who are not Missouri residents. The MOGO Scholarship has a value of three-fourths of the out-of-state portion of graduate students tuition for 9 credit hours (5 credits hours in the summer). No application is required. Once a student meets the eligibility criteria, the scholarship will automatically be offered. All information regarding student eligibility and included programs can be found on the Missouri Outreach Graduate Opportunity (MOGO) Scholarship page.

Renewal Criteria

To renew the MOGO Scholarship for subsequent semesters, students must remain enrolled in an eligible program, complete at least 9 graduate credit hours during each semester the award is received and at least 5 graduate credit hours during each summer session the award is received, maintain a cumulative graduate GPA of 3.00 and remain classified as a non-resident for fee purposes. Eligibility will be verified at the end of each semester. If a student becomes ineligible, the scholarship will not be reinstated unless the student is approved for an exception by the Dean of the Graduate College. An exception to the credit hour requirement will be granted to students who are enrolled in their last semester and need fewer than the prescribed minimum hours to graduate. Students in their last semester seeking a reduction to the credit hour requirement must submit the "Satisfactory Academic Appeal" Form found on the Financial Aid website.

Undergraduate MSU Scholarships

MSU undergraduate students who complete their bachelor's degree and move immediately into a graduate program (including accelerated master's programs), and have unused eligibility in their undergraduate scholarship, may be able to transfer the remaining scholarship to their graduate programs. Check with the Financial Aid Office for information and eligibility requirements. Note: This cannot be used in conjunction with a graduate assistantship.

Scholarships for Graduate Students

For a complete listing, refer to the Scholarships for Graduate Students website.

Federal Financial Assistance

For a complete listing of all federal financial aid available, eligibility, and procedures, refer to the Financial Aid Office website. Veterans Benefits and Services This institution is approved to offer GI Bill® educational benefits by the Virginia State Approving Agency. The Virginia State Approving Agency (SAA), is the approving authority of education and training programs for Virginia. Our office investigates complaints of GI Bill beneficiaries. While most complaints should initially follow the school grievance policy, if the situation cannot be resolved at the school, the beneficiary should contact our office via email saa@dvs.virginia.gov.

For more information, refer to the Veterans Student Services website.

Student Employment Service

The Student Employment Office maintains an active file of permanent and temporary part-time jobs as well as a few full-time employment opportunities. Graduate Assistants (20 per week) are not eligible to hold any additional on-campus positions during the time of their appointment. For more information, refer to the Student Employment Service website.

Office of Education Abroad

The mission of the Office of Education Abroad is to facilitate high-quality academic programs that increase the cultural competence of the Missouri State community, while developing the global leaders of tomorrow.

For up to date information regarding application, eligibility, financial considerations and scholarships, and health and safety, contact the Office of Education Abroad.

Eligibility Requirements for Education Abroad at Missouri State University

Reciprocal exchanges

- A minimum of 2.5 cumulative GPA or higher.
- Minimum of 30 credit hours of university course work must be in progress or completed at the time of application.
- Must be a full-time student the semester prior to studying abroad. If the student will participate in education abroad in the fall, that student must be a full-time student the spring prior to studying abroad.
- Must be in good disciplinary standing with the Office of Student Conduct.

Affiliate programs

- A minimum of 2.5 cumulative GPA or higher.
- Minimum of 30 credit hours of university course work must be in progress or completed at the time of application.
- Must be a full-time student the semester prior to studying abroad. If the student will participate in education in the fall, that student must be a full-time student the spring prior to studying abroad.
- Students pursuing a program that is not a pre-approved Education Abroad Program must obtain approval from the Office of Education Abroad to receive academic credit.
- Must be in good disciplinary standing with the Office of Student Conduct.

Faculty-directed programs

- A minimum 2.0 cumulative GPA or higher established by the Program Director.
- Non-Missouri State students must enroll as non-degree seeking students to receive academic credit.
- Student disclosure is required at the time of application.
- Must be in good disciplinary standing with the Office of Student Conduct.

Education abroad appeals policy for GPA and credit hour minimum

If students do not meet the eligibility requirement of a minimum 2.5 GPA or 30 credit hours, please review the Education Abroad Appeals Policy.

Failure to comply

Failure to comply with all the above requirements will result in:

- The inability to transfer credit back to Missouri State University.
- A change in financial aid status.
- A loss of good standing at Missouri State University.

Missouri State University's Office of Education Abroad reserves the right to change, cancel or alter any provision of its programs as it deems necessary.

Contact

Director

Elizabeth C. Strong

Office

Plaster Student Union, Suite 209

Phone

417-836-6368

Fax

417-836-6146

Email

EducationAbroad@MissouriState.edu

Website

International.MissouriState.edu/EducationAbroad

Courses

Accounting

ACC 600 - Accounting Concepts for Managers

Credit Hours: 3

Comprehensive study of the fundamentals of financial and managerial accounting. Designed for graduate students who have not had an undergraduate course in accounting. Cannot be counted toward the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business graduate program or the director of the Master of Professional Studies program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 601 - Intermediate Accounting I

Credit Hours: 3

Financial accounting theory applications to the accounting process of corporations. Review of financial statements; accounting for current and long-term assets. Research assignments are required. May be taught concurrently with ACC 301. Cannot receive credit for both ACC 301 and ACC 601. This course cannot be counted towards any graduate degree.

Prerequisite: B grade or better in ACC 201 and ACC 211 or B grade or better in ACC 206 or ACC 600; and must be admitted to an accounting graduate certificate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 602 - Intermediate Accounting II

Credit Hours: 3

Continuation of intermediate accounting. Accounting for liabilities and equity. Research assignments are required. May be taught concurrently with ACC 302. Cannot receive credit for both ACC 302 and ACC 602. This course cannot be counted towards any graduate degree.

Prerequisite: C grade or better in ACC 301 or ACC 601; and must be admitted to an accounting graduate certificate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 604 - Advanced Accounting

Credit Hours: 3

Study of accounting for pensions, deferred taxes, business combinations, partnerships, and certain multicurrency accounting

issues. Research assignments are required. May be taught concurrently with ACC 504. Cannot receive credit for both ACC 504 and ACC 604.

Prerequisite: C grade or better in ACC 302 or ACC 602 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 606 - International Accounting

Credit Hours: 3

Accounting practices in different nations; multi-national corporation and selected accounting problems. Research assignments are required. May be taught concurrently with ACC 506. Cannot receive credit for both ACC 506 and ACC 606.

Prerequisite: C grade or better in ACC 302 or ACC 602 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 610 - Managerial Cost Accounting

Credit Hours: 3

Function of cost accounting; means and methods of its applications in specific accounting situations. May be taught concurrently with ACC 311. Cannot receive credit for both ACC 311 and ACC 610. This course cannot be counted towards any graduate degree.

Prerequisite: C grade or better in ACC 211 or ACC 206 or ACC 600; and must be admitted to an accounting graduate certificate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 613 - Managerial Cost Accounting II

Credit Hours: 3

A continuation of the topics examined in ACC 610. Specific topics covered include activity-based costing, strategic cost management, activity- and strategic-based responsibility accounting, quality costing, measurement and control of productivity, environmental cost management, cost-volume-profit analysis, activity resource usage, relevant costing, pricing and profitability analysis, capital investment decisions, and inventory management topics such as economic order quantity, just-in-time, and the theory of constraints. May be taught concurrently with ACC 513. Cannot receive credit for both ACC 513 and ACC 613.

Prerequisite: C grade or better in ACC 311 or ACC 610 ; and admitted to a College of Business graduate program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 620 - Tax Accounting I

Credit Hours: 3

Principles of income tax accounting; current laws and income tax problems of individuals. Research assignments are required. May be taught concurrently with ACC 321. Cannot receive credit for both ACC 321 and ACC 620. This course cannot be counted towards any graduate degree.

Prerequisite: B grade or better in ACC 201 or ACC 206 or ACC 600; and must be admitted to an accounting graduate certificate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 624 - Tax Accounting II**Credit Hours: 3**

Principles of federal tax accounting; research in income tax problems of partnerships and corporations; estate and gift tax problems of individuals. Research assignments are required. May be taught concurrently with ACC 524. Cannot receive credit for both ACC 524 and ACC 624.

Prerequisite: C grade or better in ACC 321 or ACC 620 within the last five years, or C grade or better in ACC 321 or ACC 620 with evidence of relevant and substantial work experience involving U.S. income tax rules within the last five years; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 625 - Individual Income Tax Assistance**Credit Hours: 3**

To provide students with an opportunity to integrate intermediate tax accounting skills, critical thinking skills, communication skills, and research skills with community service. This course provides service-learning experience in the preparation and review of actual individual income tax returns (both federal and state) as well as the social and ethical issues inherent in U.S. tax policy. May be taught concurrently with ACC 525. Cannot receive credit for both ACC 525 and ACC 625.

Prerequisite: C grade or better in ACC 321 or ACC 620; and permission of instructor; and admitted to the MAcc Program.

Lecture Contact Hours: 1 Lab Contact Hours: 4

Typically Offered: Spring

ACC 640 - Accounting and Management Information Systems**Credit Hours: 3**

Accounting system examined as a crucial base for the desired comprehensive management information system of an organization. Impact of the computer on accounting systems controls and the auditing of EDP based accounting systems. May be taught concurrently with ACC 341. Cannot receive credit for both ACC 341 and ACC 640. This course cannot be counted towards any graduate degree.

Prerequisite: C grade or better in ACC 301 or ACC 601; and must be admitted to an accounting graduate certificate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 642 - Data Analytics in Accounting

Credit Hours: 3

This course introduces students to data analytics tools and techniques in accounting. Topics include: statistical techniques, data analysis, and visualization. This course uses Microsoft Excel, Tableau, and other data analysis tools to implement and apply applications of these concepts and techniques. May be taught concurrently with ACC 542. Cannot receive credit for both ACC 542 and ACC 642.

Prerequisite: admitted to a College of Business graduate program or permission of the Director of the School of Accountancy.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 653 - Auditing

Credit Hours: 3

ACC 610 ACC 620 Kinds of audits, the duties and obligations of the auditor, principles and procedures to be followed in conducting an audit. A C grade or better is required in this course in order to take ACC 703, ACC 750, ACC 751, ACC 752, ACC 754 and ACC 790. This course has a required assessment component. Research assignments are required. May be taught concurrently with ACC 553. Cannot receive credit for both ACC 553 and ACC 653.

Prerequisite: C grade or better in ACC 300; and ACC 301 or ACC 601 ; and ACC 302 or ACC 602 ; and ACC 311 or ACC 610 ; and ACC 321 or ACC 620; and ACC 341 or ACC 640 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 655 - Internal Auditing

Credit Hours: 3

Functions of internal audit, financial audit, and operations audit; importance of the changing professional status of the internal auditor. May be taught concurrently with ACC 555. Cannot receive credit for both ACC 555 and ACC 655.

Prerequisite: C grade or better in ACC 341 or ACC 640 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Demand

ACC 656 - Operational Auditing

Credit Hours: 3

Primarily a case study approach covering nonfinancial audits of efficient and effective resource utilization, accomplishment of operational goals, adherence to laws and regulations, fraud prevention and detection, integrity and security of computer systems, and achievement of program goals. May be taught concurrently with ACC 556. Cannot receive credit for both ACC 556 and ACC 656.

Prerequisite: admitted to MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Demand

ACC 688 - Healthcare Accounting Concepts

Credit Hours: 3

The role of accounting in the financial and operational management of healthcare organizations is approached via an introduction to healthcare financial and managerial accounting principles. This course addresses the definition of financial accounting; external reporting; development and use of the income statement, balance sheet and statement of cash flows. The course also addresses the managerial accounting topics of cost behavior and allocation; accounting data for pricing and service decisions; planning and budgeting in healthcare organizations; analysis of financial condition; and selected topics in ethics. The course is a core requirement for Master of Health Administration students and may be of interest to students in other graduate programs. Note that ACC 688 cannot be substituted for ACC 711 in the MBA program and cannot be counted in the 33 semester hours required for the MAcc degree.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

ACC 695 - Research Issues and Problems: Accounting

Credit Hours: 3

Research issues and projects growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be taught concurrently with ACC 596. Cannot receive credit for both ACC 596 and ACC 695.

Prerequisite: permission of the Director of the School of Accountancy; and admitted to the MAcc Program.

Typically Offered: Demand

ACC 703 - Seminar in Accounting Theory for Financial Executives

Credit Hours: 3

Critical evaluation and interpretation of accounting theory. Completion of a significant research project.

Prerequisite: C grade or better in ACC 301 or ACC 601 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 705 - Advanced Financial Accounting Problems

Credit Hours: 3

An in-depth study of contemporary advanced financial accounting topics for professional accountants.

Prerequisite: C grade or better in ACC 302 or ACC 602 ; and C grade or better in ACC 504 or ACC 604 ; and admitted to MAcc

program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 711 - Managerial Accounting

Credit Hours: 3

Role of accounting in improving the practice of business management; budgeting, accounting analysis, the behavior of costs, accounting control. This course will not be counted in the 33 hours required for the MAcc degree.

Prerequisite: C grade or better in ACC 211 or ACC 206 or ACC 600; and admitted to MBA or MHA program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 712 - Controllership and Cost Analytics

Credit Hours: 3

An in-depth examination of the leadership and communication challenges associated with controllership and chief financial officer (CFO) roles. There will be an emphasis on developing a cost analytics skill set vital for modern day use of emerging technologies by controllers and CFOs. Students will develop written and oral communication skills required for success as a professional accountant.

Prerequisite: C grade or better in ACC 311 or ACC 610 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall

ACC 715 - Advanced Cost Accounting

Credit Hours: 3

An in-depth study of contemporary topics for cost accountants.

Prerequisite: C grade or better in ACC 513 or ACC 613; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 721 - Research Techniques and Consulting in Tax

Credit Hours: 3

Case study approach to develop tax research, analytical, and communication skills. Incorporated into the case studies are ethical and legal constraints within which tax practitioners are obligated to operate.

Prerequisite: C grade or better in ACC 321 or ACC 620 ; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 722 - Public Service Tax Accounting

Credit Hours: 3

Students will learn theoretical foundations in public service tax accounting topics and develop skills; which will apply to practical situations that will help students be better citizens and employees. Students will assist low-income, elderly, and English as Second Language taxpayers in the community in identifying and meeting their tax rights and responsibilities.

Prerequisite: permission of instructor; and admitted to MAcc program.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Spring

ACC 723 - Tax Considerations for Decision Makers

Credit Hours: 3

Tax course with emphasis on recognizing and understanding the importance of tax considerations in the process of making decisions in business and personal matters; developing a tax institution to anticipate and understand the effect of prospective tax law changes; examining U.S. tax policy issues; and motivating students to a lifetime of learning by engaging them in independent study.

Prerequisite: C grade or better in ACC 524 or ACC 624; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Fall

ACC 726 - Regulation Issues for Accountants

Credit Hours: 3

The course is designed to provide students with a focused intensive study of regulation issues particularly relevant to professional accountants.

Prerequisite: ACC 624 or ACC 524; and admitted to the MAcc program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 731 - Control of Non-Profit Organizations

Credit Hours: 3

Case study approach to financial control in non-profit organizations. Special emphasis is on governmental and health care organizations, although other non-profit organizations are also studied.

Prerequisite: C grade or better in ACC 311 or ACC 610 or ACC 711 ; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Demand

ACC 732 - Governmental and Not-For-Profit Organizational Accounting

Credit Hours: 3

Governmental and not-for-profit organizational accounting records and funds, budgeting, budget control, analysis and interpretation of financial statements. Research assignments are required.

Prerequisite: C grade or better in ACC 301 or ACC 601 ; and admitted to the MAcc Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 741 - Advanced Accounting and Management Information Systems

Credit Hours: 3

Application of the concepts of systems design and implementation. Study of the attributes of accounting information systems and their relationship with management information systems. Functions of accounting information systems including data collection and transmission, internal controls, data organizations and storage, processing data, and information retrieval and display. Characteristics and applications of both manual and automated information systems.

Prerequisite: C grade or better in ACC 341 or ACC 640 ; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Fall

ACC 750 - Advanced Auditing

Credit Hours: 3

An in-depth study of contemporary topics for auditing professionals.

Prerequisite: C grade or better in ACC 553 or ACC 653; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 751 - Computer Forensics and IT Auditing

Credit Hours: 3

A study of information systems controls; auditing around, through, and with the computer; auditing advanced computer systems, spreadsheets and other fourth generation language applications. Hands-on computer auditing projects will be integrated into the course.

Prerequisite: C grade or better in ACC 553 or ACC 653; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 752 - Fraud Examination

Credit Hours: 3

An in-depth study of the fraud examination process, including fraud prevention, detection, investigation, and management and employee fraud, and the legal aspects of fraud. Case studies are used extensively throughout the course.

Prerequisite: C grade or better in ACC 553 or ACC 653; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Demand

ACC 754 - Forensic Accounting: Litigation Support and Expert Witnessing

Credit Hours: 3

This course explores one of the major areas of practice in forensic accounting. The course provides an in-depth investigation into the world of accounting litigation support and financial expert witnessing. The course requires students to actively participate in case analysis, development of expert reports, deposition testimony, and trial testimony. Students are exposed to the legal issues that impact on their role as an expert witness.

Prerequisite: C grade or better in ACC 553 or ACC 653; and admitted to a College of Business graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 762 - Business and Accounting Concepts for Accountants

Credit Hours: 3

The course is designed to provide students with a focused, intensive study of business and accounting concepts particularly relevant to professional accountants.

Prerequisite: admitted to the MAcc program.

Lecture Contact Hours: 3

Typically Offered: Spring

ACC 790 - Current Topics in Corporate and International Accounting

Credit Hours: 3

In consultation with the coordinating professor, critical evaluation and interpretation of the current topics and professional literature in accounting. Study of ethical and institutional features of the accounting environment with emphasis on technology. Completion of a significant research project.

Prerequisite: C grade or better in ACC 301 or ACC 601 ; and admitted to MAcc program

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ACC 794 - Internship: Accounting

Credit Hours: 3

In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined, and evaluated during the semester. May be repeated with permission of school to a maximum of six hours.

Prerequisite: permission of instructor; and admitted to MAcc program.

Lecture Contact Hours: 3

Typically Offered: Demand

ACC 796 - Independent Study-Accounting**Credit Hours:** 1-3

In consultation with coordinating professor, student selects for intensive study of a specific area of concern related to the student's program, with emphasis on research.

Prerequisite: permission of instructor; and admitted to the MAcc program.

Typically Offered: Demand

ACC 797 - Special Topics in Accounting**Credit Hours:** 1-3

In-depth study of contemporary topics in accounting. Each offering concerns a single topic. May be repeated with permission of school to a maximum of nine hours.

Prerequisite: 9 graduate hours of accounting courses; and admitted to the MAcc program.

Typically Offered: Demand

ACC 799 - Thesis**Credit Hours:** 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission of instructor; and admitted to the MAcc program.

Typically Offered: Demand

Agricultural Business**AGB 614 - International Agricultural Trade****Credit Hours:** 3

Gains from trade, agricultural trade policies of exporters and importers, exchange rates, multilateral trade negotiations, preferential trade agreements, technical barriers and environmental regulations and trade. May be taught concurrently with AGB 514. Cannot receive credit for both AGB 514 and AGB 614.

Recommended Prerequisite: AGB 334 or MKT 350.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

AGB 624 - Agricultural Prices

Credit Hours: 3

Factors influencing the level and movement of agricultural commodity prices and prices of agricultural inputs. May be taught concurrently with AGB 524. Cannot receive credit for both AGB 524 and AGB 624.

Recommended Prerequisite: AGB 334.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

AGB 634 - Production Economics

Credit Hours: 3

Application of economics of production in agricultural and business management, examination of the relationships between inputs and outputs, and impact of technology selection on business profitability. May be taught concurrently with AGB 534. Cannot receive credit for both AGB 534 and AGB 634.

Prerequisite: AGB 144.

Lecture Contact Hours: 3

Typically Offered: Spring

AGB 644 - Legal Aspects of Agriculture

Credit Hours: 3

Legal framework impinging upon decision making of farm business including farm ownership and transfer, taxation, business organization, losses, and regulations of land and water use. May be taught concurrently with AGB 314. Cannot receive credit for both AGB 314 and AGB 644.

Lecture Contact Hours: 3

Typically Offered: Fall

AGB 654 - Agricultural Industry Study

Credit Hours: 2

A five-day study of Missouri agricultural businesses to examine the management process of a variety of management structures. May be repeated for up to four hours if traveling to a different location. May be taught concurrently with AGB 554. Cannot receive credit for both AGB 554 and AGB 654. 2 S,Su

Prerequisite: permission of instructor.

Typically Offered: Spring, Summer

AGB 674 - Advanced Agricultural Risk Management

Credit Hours: 3

This course explores theory and practice of agricultural risk management in production, market, finance, human, legal, and institutional risk. Students will construct an applicable risk management plan while developing tools and problem solving skills in identifying ways to mitigate risk. May be taught concurrently with AGB 574. Cannot receive credit for both AGB 574 and AGB 674.

Recommended Prerequisite: AGB 364.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

AGB 684 - Farm Business Management

Credit Hours: 3

Economic principles applied to the organization and operation of agricultural units; tools of decision-making; and factor allocation. May be taught concurrently with AGB 584. Cannot receive credit for both AGB 584 and AGB 684.

Recommended Prerequisite: AGB 144.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

AGB 694 - Agricultural Entrepreneurship

Credit Hours: 3

This course is designed to explore the best foundational knowledge of owning your own business within the expansive industry that is agriculture. Course will cover various facets of entrepreneurship from resource evaluation to budgets and marketing. By the end of the course, not only will each student have an understanding of entrepreneurship but will also have a completed business plan built on that knowledge. Real world applications will also be explored through guest speakers from the local agricultural community and current event discussions. While most applications will be agriculturally focused, all topics that are discussed can be applied to other sectors of the business world. May be taught concurrently with AGB 594. Cannot receive credit for both AGB 594 and AGB 694.

Lecture Contact Hours: 3

Typically Offered: Spring

Agricultural Communications

AGC 693 - Capstone in Agricultural Communications

Credit Hours: 3

Students will understand the process of developing and publishing a feature magazine including both writing and design of the magazine. For the writing portion, students will be responsible for story idea development, interviews, executing writing and editing. The design portion will include photography and content layout. Another component of the course will be selling advertisements to help offset printing costs. Advertisements are sold to community businesses by students, who potentially could also work with the business to create the advertisement itself. Graduate students will be required to serve on the editorial team, write extra content and reach accelerated advertising goals. May be taught concurrently with AGC 493. Cannot receive credit for both AGC 493 and AGC 693.

Prerequisite: AGC 313 and AGC 333.

Lecture Contact Hours: 3

Typically Offered: Spring

Agricultural Education

AGE 608 - Teaching Adults in Vocational Education

Credit Hours: 3

Rise of the adult education movement; learning abilities, educational interests and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education. Identical with AGV 627 and SEC 627. Cannot receive credit for AGV 627 and SEC 627 and AGE 608. May be taught concurrently with AGE 508. Cannot receive credit for both AGE 508 and AGE 608.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

AGE 628 - Agriculture Education-Special Topics

Credit Hours: 1-3

Special study of agricultural education topics not covered in other courses. May be repeated to a maximum of five hours provided the same topic is not duplicated. May be taught concurrently with AGE 518. Cannot receive credit for both AGE 518 and AGE 628.

Prerequisite: permission of instructor.

Typically Offered: Demand

AGE 648 - Agriculture in the Classroom

Credit Hours: 1

Course is designed to help elementary teachers better appreciate the importance of agriculture in their student's lives and to better understand Missouri agriculture. Course stresses integration of resources available from the agricultural industry across the curriculum. May be taught concurrently with AGE 548. Cannot receive credit for both AGE 548 and AGE 648.

Lecture Contact Hours: 1

Typically Offered: Summer

AGE 658 - Teaching of Agriculture

Credit Hours: 3

Establishing objectives and organizing the course, selecting textbooks and equipment, securing and using teaching aids; using workbooks and notebooks, planning field trips, selecting and supervising projects. A C grade or better is required in this course or in AGE 558 in order to take AGE 493 or AGE 494. May be taught concurrently with AGE 558. Cannot receive credit for both AGE 558 and AGE 658.

Prerequisite: SEC 302 and EDC 350; and teacher certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Spring

AGE 668 - Course and Program Building in Agricultural Education

Credit Hours: 3

Organization and analysis of agricultural instruction courses and programs; including the adoption of resource materials to meet individual student needs. May be taught concurrently with AGE 568. Cannot receive credit for both AGE 568 and AGE 668.

Prerequisite: AGE 318 and AGE 658.

Lecture Contact Hours: 3

Typically Offered: Spring

AGE 678 - Methods of Teaching Agricultural Management

Credit Hours: 2

Identification, development, and utilization of supervised agriculture experience programs in Agricultural Education that includes methods of teaching program management, record keeping, and appropriate methodologies. May be taught concurrently with AGE 578. Cannot receive credit for both AGE 578 and AGE 678.

Prerequisite: AGE 318 and AGE 658.

Lecture Contact Hours: 2

Typically Offered: Spring

AGE 688 - Methods of Teaching Agricultural Laboratory Management

Credit Hours: 2

Prepare prospective agricultural science teachers to determine subject matter, methods of teaching, and organization of equipment and facilities as applied to agricultural laboratories in high schools. May be taught concurrently with AGE 588. Cannot receive credit for both AGE 588 and AGE 688.

Prerequisite: AGE 318 and AGE 658.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Spring

AGE 718 - Topics in Agricultural Education

Credit Hours: 1-3

Current developments and trends in teaching agricultural education as well as new developments in resources and techniques. May be repeated, however, only nine hours will count towards the graduate program of study.

Prerequisite: permission of instructor.

Typically Offered: Demand

AGE 728 - Induction Year Teaching I

Credit Hours: 2

Course for the professional development of first-year teachers of agriculture. The course focuses on the pedagogical knowledge, skills, and attitudes and managerial skills needed by beginning teachers of agriculture.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

AGE 738 - Induction Year Teaching II

Credit Hours: 2

Course for the professional development of second-year teachers of agriculture. The course is a continuation of AGE 728 and focuses on the pedagogical knowledge, skills, and attitudes and managerial skills needed by beginning teachers of agriculture.

Prerequisite: AGE 728.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

Agricultural Natural Resources

AGN 605 - Soil Fertility and Plant Nutrition

Credit Hours: 3

Theoretical and applied aspects of soil fertility emphasizing ion transport, nutrient availability, and root absorption in soils-plant environments. May be taught concurrently with AGN 405. Cannot receive credit for both AGN 405 and AGN 605.

Prerequisite: AGN 215.

Lecture Contact Hours: 3

Typically Offered: Spring

AGN 635 - Soil Conservation and Water Management

Credit Hours: 3

The history and policies surrounding management of soil and water resources will be considered, but the majority of class time will be used addressing the processes of erosion and nutrient loss, and the practices used to conserve natural resources and sustain productivity/function of cropland, pasture, urban, and wild landscapes. May be taught concurrently with AGN 335. Cannot receive credit for both AGN 335 and AGN 635.

Lecture Contact Hours: 3

Typically Offered: Fall

AGN 643 - Silviculture

Credit Hours: 3

This course will examine natural tree and stand development, as well as fundamentals of forest stand dynamics, site productivity, stand density and tree growth. As such, this course will provide a scientific and practical basis for concepts such as regeneration techniques, density management, wildlife habitat management and other silvicultural principles. May be taught concurrently with AGN 543. Cannot receive credit for both AGN 543 and AGN 643.

Lecture Contact Hours: 3

Typically Offered: Spring

AGN 655 - Soil Genesis, Morphology and Classification

Credit Hours: 3

Pedogenetic processes, macromorphology, micromorphology, redoximorphic features, and classification as related to soil taxonomy, with GIS applications for use of soil survey information discussed, if time allows. May be taught concurrently with AGN 455. Cannot receive credit for both AGN 455 and AGN 655.

Recommended Prerequisite: AGN 465.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

AGN 665 - Environmental Soil Science

Credit Hours: 3

Application of soil physical, chemical, and biological properties influencing agriculture, natural resources, and environmental science. Students will determine site suitability for agricultural and engineering purposes using information from onsite evaluations, soil survey, and other appropriate resources. May be taught concurrently with AGN 465. Cannot receive credit for both AGN 465 and AGN 665.

Recommended Prerequisite: AGN 215.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

AGN 699 - Special Topics in Natural Resources

Credit Hours: 1-3

Special study in an identified area of natural resources not treated in other courses. Recent advances and new research techniques will be discussed. Variable content course. May be repeated to a maximum of nine hours provided the same topic is not duplicated.

Typically Offered: Demand

AGN 725 - Advanced Soils Interpretations

Credit Hours: 3

Field interpretation of physical and chemical properties, water relationships, and soil landscape relationships.

Recommended Prerequisite: AGN 465.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Demand

AGN 730 - Advanced Topics in Natural Resources

Credit Hours: 1-3

An advanced topic in natural resources will be addressed via faculty lectures and student projects. Variable content course. May be repeated to a maximum of nine hours provided the same topic is not duplicated.

Prerequisite: permission of instructor.

Typically Offered: Demand

Agricultural Plant Science

AGP 603 - Suburban Horticulture

Credit Hours: 3

Horticultural concepts and their application to the growth and maintenance of fruit, vegetables and ornamentals common to most homes. Will not count toward the Environmental Plant Science major or Horticulture minor. May be taught concurrently with AGP 303. Cannot receive credit for both AGP 303 and AGP 603.

Recommended Prerequisite: AGP 103 or AGN 115 or BIO 101 and 111 or BIO 121.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

AGP 611 - Viticulture

Credit Hours: 3

Grapevine growth, development and adaptation of grape species and hybrids is covered. Focus is on vineyard establishment and management for wine production. Concepts relate to all wine growing regions with emphasis on grape production in the Midwest and Eastern United States. May be taught concurrently with AGP 511. Cannot receive credit for both AGP 511 and AGP 611.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 613 - Insects Affecting Horticulture and Forestry Crops

Credit Hours: 3

Identification, life histories and control methods of insects affecting gardens, ornamental plants, orchards and forests. May be taught concurrently with AGP 513. Cannot receive credit for both AGP 513 and AGP 613.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

AGP 625 - Hydroponic Systems

Credit Hours: 3

This course focuses on the "growing" industry of hydroponics, and includes the different methods and systems used to grow plants without soil, and the science of plant nutrition and production. In the hands-on lab, students plan, build, and manage hydroponic systems for growing plants and apply entrepreneurial strategies for associated business plans. Field trips include visiting local hydroponic growers. May be taught concurrently with AGP 425. Cannot receive credit for both AGP 425 and AGP 625.

Recommended Prerequisite: AGP 103 and AGP 104 and AGN 405 and AGP 453.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

AGP 633 - Crop Physiology

Credit Hours: 3

General, stress-related and post-harvest physiology of horticulture and agronomic crops in relationship to their environments. May be taught concurrently with AGP 453. Cannot receive credit for both AGP 453 and AGP 633.

Recommended Prerequisite: AGP 323.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 641 - Vegetable Production

Credit Hours: 3

Methods of commercial vegetable production with an emphasis on using sustainable production techniques to optimize yield and quality of vegetables. The purpose of this course is to expand knowledge in commercial vegetable production. May be taught concurrently with AGP 441. Cannot receive credit for both AGP 441 and AGP 641.

Recommended Prerequisite: AGP 103 or AGN 115 or BIO 101 and 111 or BIO 121.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 644 - High Tunnel Crop Production

Credit Hours: 3

Site selection, design, construction, management, and production methods of crops grown in high tunnels. Sustainable production methods are emphasized. May be taught concurrently with AGP 444. Cannot receive credit for both AGP 444 and AGP 644.

Recommended Prerequisite: AGP 103 or AGN 115 or BIO 101 and 111 or BIO 121.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 653 - Turf Science

Credit Hours: 3

A scientific approach to the physiology of turfgrass in response to the environment, and the selection, establishment, maintenance and pest management relevant to utility, lawn and sports turf. Field trips required. May be taught concurrently with AGP 353. Cannot receive credit for both AGP 353 and AGP 653.

Recommended Prerequisite: AGP 103 or BIO 101 and 111 or BIO 121.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 655 - Plant Molecular Biology

Credit Hours: 3

This course encompasses detailed coverage of nucleic acids, plant genomes, gene structure and expression, DNA replication and repair, and cell reproduction. Students will also be exposed to the major molecular underpinnings of plant survival with topics from primary literature, such as regulation of photosynthesis, nitrogen metabolism, drought response, and cold tolerance. Bioinformatics will also be introduced. May be taught concurrently with AGP 455. Cannot receive credit for both AGP 455 and AGP 655.

Lecture Contact Hours: 3

Typically Offered: Fall

AGP 660 - Site Specific Techniques in Agriculture and Natural Resources

Credit Hours: 3

An overview of the theory and application of site-specific techniques used in agriculture and natural resources with emphasis on precision agronomy. Techniques will include: guidance systems, remote sensing, drone operation, variable rate application, and yield monitoring. May be taught concurrently with AGP 460. Cannot receive credit for both AGP 460 and AGP 660.

Recommended Prerequisite: 12 hours of AGN or AGP courses.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

AGP 663 - Greenhouse Production

Credit Hours: 3

Factors involved in site-selection, construction and management of greenhouses and other controlled-environment structures for production of floriculture and food crops. Sustainable production methods are emphasized. May be taught concurrently with AGP 543. Cannot receive credit for both AGP 543 and AGP 663.

Recommended Prerequisite: AGP 103.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 665 - Grain Crops for Food, Feed and Energy

Credit Hours: 3

Adaptation, production, and utilization of the major grain crops for human and animal (livestock and wildlife) consumption and energy production. May be taught concurrently with AGP 365. Cannot receive credit for both AGP 365 and AGP 665.

Lecture Contact Hours: 3

Typically Offered: Spring

AGP 670 - Forage Crops for Animals and the Environment

Credit Hours: 3

Adaptation, production and utilization of the major forage crops for grazing, hay, and silage production, as well as their effects on environmental quality and wildlife. May be taught concurrently with AGP 370. Cannot receive credit for both AGP 370 and AGP 670.

Prerequisite: AGP 103 or AGN 115 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall

AGP 673 - Plant Propagation

Credit Hours: 3

Practices employed by fruit and ornamental plant producers in propagation of plants, including seeds, cuttings, layerings, grafting and micropropagation. May be taught concurrently with AGP 573. Cannot receive credit for both AGP 573 and AGP 673.

Recommended Prerequisite: AGP 103; and AGN 115 or BIO 121; and CHM 107 or CHM 116 or CHM 160.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

AGP 675 - Plant Breeding and Genetics

Credit Hours: 2

Application of genetic principles to the improvement of crop plants. Includes self-pollinated, cross-pollinated, and asexually-propagated crops. May be taught concurrently with AGP 575. Cannot receive credit for both AGP 575 and AGP 675.

Recommended Prerequisite: AGP 103 or AGN 115.

Lecture Contact Hours: 2

Typically Offered: Spring

AGP 676 - Plant Breeding and Genetics Lab

Credit Hours: 1

Laboratory activities related to plant breeding and genetic improvement of crop plants. May be taught concurrently with AGP 576. Cannot receive credit for both AGP 576 and AGP 676.

Prerequisite: AGP 575 or AGP 675 or concurrent enrollment.

Lab Contact Hours: 2

Typically Offered: Spring

AGP 680 - Plant Biotechnology

Credit Hours: 3

This course provides lecture and hands-on exposure to more in-depth concepts in plant biotechnology, including DNA and RNA extraction, cloning and sequence analysis of DNA fragments, detection of plant viruses by polymerase chain reaction (PCR) and generation of genetically-modified plants. May be taught concurrently with AGP 580. Cannot receive credit for both AGP 580 and AGP 680.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

AGP 683 - Plant Pathology

Credit Hours: 3

Continued study into diseases and physiological disorders of fruit, vegetables, agronomic crops and ornamental plants. Emphasis is placed on the interactions between plants and pathogenic organisms, on environmental factors that cause plant diseases, and on disease control methods that reduce or eliminate the need for chemical applications. Students will gain insight into the techniques to manage plant diseases, and the impact plant diseases have on humans and the environment. May be taught concurrently with AGP 583. Cannot receive credit for both AGP 583 and AGP 683.

Recommended Prerequisite: 9 hours of plant science (AGP).

Lecture Contact Hours: 3

Typically Offered: Fall

AGP 685 - Weed Ecology and Management

Credit Hours: 3

Ecology, physiology and impacts of invasive plants and crop weeds and methods for their control in natural and agroecosystems. May be taught concurrently with AGP 585. Cannot receive credit for both AGP 585 and AGP 685.

Prerequisite: AGP 103 or AGN 115; and BIO 101 or BIO 121; and CHM 107 or CHM 116 or CHM 160.

Recommended Prerequisite: AGP 353 or AGP 365 or AGP 370 or AGP 393 or AGP 441.

Lecture Contact Hours: 3

Typically Offered: Fall

AGP 693 - Fruit Production

Credit Hours: 3

The culture and management of perennial fruit crops adapted to temperate climates. Physiology, technology, and research as it applies to modern production practices will be emphasized. May be taught concurrently with AGP 393. Students cannot receive credit for both AGP 393 and AGP 693.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

AGP 699 - Special Topics in Plant Science

Credit Hours: 1-3

Special study in an identified area of plant science not treated in other courses. Variable content course. May be repeated to a maximum of nine hours provided the same topic is not duplicated.

Typically Offered: Demand

AGP 700 - Plant Science Colloquium

Credit Hours: 1

A series of oral presentations on new developments in plant science. Presentations to be made by faculty members, students, and guest speakers from industry and academe. May be repeated, but not more than two hours may be counted toward the MS degree.

Prerequisite: permission of graduate coordinator.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

AGP 721 - Enology

Credit Hours: 3

The course will study the chemistry, microbiology, and technology of modern wine production.

Recommended Prerequisite: BIO 310.

Lecture Contact Hours: 3

Typically Offered: Demand

AGP 722 - Enology Lab

Credit Hours: 2

Laboratory techniques in assessing wine production methods and quality.

Prerequisite: AGP 721.

Lab Contact Hours: 4

Typically Offered: Demand

AGP 730 - Advanced Topics in Plant Science

Credit Hours: 1-3

An advanced topic in plant science will be addressed via faculty lectures and student projects. Examples of proposed topics include: Improved Disease Resistance in Viticulture, and Application of Field Collected Data to Computer Analysis. Variable content course. May be repeated to a maximum of nine hours provided the same topic is not duplicated.

Prerequisite: permission of instructor.

Typically Offered: Demand

AGP 731 - Plant Genetic Engineering

Credit Hours: 3

Principles, methodology, and commercial applications of plant biotechnology. Includes brief introduction to nucleic acid structure, gene regulation, and genome organization in eukaryotic and prokaryotic organisms.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

AGP 753 - Plant Stress Physiology**Credit Hours:** 3

The effects of environmental stresses on plant physiological functions and plant growth, plus cultural methods to help plants adapt to stress.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

AGP 773 - Plant Growth Regulation**Credit Hours:** 3

The role of natural and synthetic plant hormones and related compounds in the growth, reproduction and cultivation of plants.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

Agriculture, General**AGR 696 - International Study in Agriculture****Credit Hours:** 1-3

Faculty-led study course that will include travel to a foreign country as part of further learning of world agricultural systems. Paper and/or other classroom-related work required in addition to travel. Variable content course. May be repeated to a maximum of six hours.

Typically Offered: Demand

AGR 790 - Introduction to Agricultural Research Methods**Credit Hours:** 3

This course is designed to provide an introduction to the process of research. The course will address planning, conducting, and reporting research; and development of good consumers of research.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

AGR 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (80 hours/credit hour, 6 credit hours maximum) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the school and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than six hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

AGR 797 - Seminar

Credit Hours: 1

In-depth study in an area of agriculture, culminating in an extensive scholarly presentation. May be repeated to a maximum of three hours.

Prerequisite: permission of advisor.

Lecture Contact Hours: 1

Typically Offered: Demand

AGR 798 - Research

Credit Hours: 1-6

Supervised research in agriculture. May be repeated, but not more than six hours may be counted toward a master's degree.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

AGR 799 - Thesis

Credit Hours: 1-6

Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated but no more than six hours may be counted a master's degree.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

Animal Science

AGS 611 - Animal Nutrition and Metabolism

Credit Hours: 3

Utilization and metabolism of nutrients by domestic animals; role of vitamins and minerals. May be taught concurrently with AGS 511. Cannot receive credit for both AGS 511 and AGS 611.

Prerequisite: C- or better in AGR 300 or CHM 201; and C- or better in AGS 310 or CHM 352.

Lecture Contact Hours: 3

Typically Offered: Spring

AGS 661 - Equine Nutrition and Physiology**Credit Hours:** 3

Topics covered will include nutrition and both reproductive and exercise physiology for the production and management of the equine. May be taught concurrently with AGS 461. Cannot receive credit for both AGS 461 and AGS 661.

Recommended Prerequisite: courses in animal nutrition and physiology.

Lecture Contact Hours: 3

Typically Offered: Spring

AGS 712 - Special Topics in Animal Science**Credit Hours:** 1-3

Special study in an identified area of animal science not treated in other courses. Recent advances and new research techniques will be discussed. May be repeated to a maximum of six hours provided the same topic is not duplicated.

Prerequisite: permission of instructor.

Typically Offered: Demand

AGS 716 - Mammalian Reproductive Physiology**Credit Hours:** 3

Comparative anatomy and physiological processes of reproduction with an emphasis on domestic and laboratory animals. Fertilization through embryonic development, pregnancy, and growth to sexual maturity, reproductive efficiency and application of reproductive technology.

Recommended Prerequisite: AGS 302.

Lecture Contact Hours: 3

Typically Offered: Spring

AGS 752 - Advanced Cow-Calf Production**Credit Hours:** 3

Students will gain knowledge in current cow-calf management practices through reading of current and classic scientific

literature. Students will engage in discussion of scientific research publications on topics of cattle nutrition, forages and grazing management, reproduction, genetics and breeding, and animal health. Students will gain verbal and written communication skills through oral presentations, and writing of review papers and project proposals.

Lecture Contact Hours: 3

Typically Offered: Spring

AGS 753 - Advanced Stocker and Feedlot Cattle Production

Credit Hours: 3

Students will gain knowledge in current stocker/feedlot cattle management practices through reading of current and classic scientific literature. Students will engage in discussion of scientific research publications on topics of cattle nutrition, forages and grazing management, animal growth and body composition, beef carcass merit, and animal health. Students will gain verbal and written communication skills through oral presentations, and writing of review papers and project proposals.

Lecture Contact Hours: 3

Typically Offered: Fall

Technology Education

AGT 621 - Selection and Organization of Industrial Education

Credit Hours: 3

Selection and arrangement of units to teach; preparation of informational and job assignments; selection, purchase and arrangement of laboratory equipment; dispensing of supplies and keeping of adequate records. Course typically taught in same semester as AGT 416 and AGT 420. Identical with AGV 621. Cannot receive credit for both AGT 621 and AGV 621. May be taught concurrently with AGT 521. Cannot receive credit for both AGT 521 and AGT 621.

Prerequisite: AGT 416 or concurrent enrollment; and AGT 420 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

Agricultural Vocational

AGV 620 - Occupational Analysis

Credit Hours: 1-2

Analysis and breakdown of broad occupations or specific jobs into basic elements for instructional purposes. May be repeated to a maximum of two hours provided the same topic is not duplicated. May be taught concurrently with AGV 520. Cannot receive credit for both AGV 520 and AGV 620.

Typically Offered: Demand

AGV 621 - Selection and Organization of Industrial Education

Credit Hours: 3

Selection and arrangement of units to teach; preparation of informational and job assignments; selection, purchase and arrangement of laboratory equipment; dispensing of supplies and keeping of adequate records. Course typically taken in same semester as AGT 416. Identical with AGT 621. Cannot receive credit for both AGV 621 and AGT 621. May be taught concurrently with AGV 521. Cannot receive credit for both AGV 521 and AGV 621.

Lecture Contact Hours: 3

Typically Offered: Demand

AGV 622 - Philosophy of Vocational Education**Credit Hours:** 1-3

Philosophical foundations of vocational education; philosophies of vocational education in the contemporary school. Identical with SEC 622. May be repeated to a maximum of three hours provided the same topic is not duplicated. May be taught concurrently with AGV 522. Cannot receive credit for both AGV 522 and AGV 622.

Typically Offered: Demand

AGV 623 - Guidance for Vocational Development**Credit Hours:** 1-3

Materials, procedures, and problems involved in the guidance of individuals in the selection of, preparation for, and advancement in a vocation. May be repeated to a maximum of three hours provided the same topic is not duplicated. May be taught concurrently with AGV 523. Cannot receive credit for both AGV 523 and AGV 623.

Typically Offered: Demand

AGV 625 - Organization and Management in Vocational Education**Credit Hours:** 3

A systematic approach to defining and measuring occupational knowledge, skills and attitudes based upon an occupational analysis, instructional methodology, evaluation, and program standards. May be taught concurrently with AGV 525. Cannot receive credit for both AGV 525 and AGV 625.

Lecture Contact Hours: 3

Typically Offered: Demand

AGV 626 - Coordination of Cooperative Education**Credit Hours:** 1-2

Problems and procedures in organizing and operating part-time cooperative and evening occupation programs. Identical with SEC 626. May be repeated to a maximum of two hours provided the same topic is not duplicated. May be taught concurrently with AGV 526. Cannot receive credit for both AGV 526 and AGV 626.

Typically Offered: Demand

AGV 627 - Teaching Adults in Vocational Education

Credit Hours: 3

Rise of the adult education movement, learning abilities, educational interests, and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education. Identical with AGE 608 and SEC 627. Cannot receive credit for AGV 627 and AGE 608 and SEC 627. May be taught concurrently with AGV 527. Cannot receive credit for both AGV 527 and AGV 627.

Lecture Contact Hours: 3

Typically Offered: Demand

AGV 628 - Measurement and Evaluation of Vocational Education Programs

Credit Hours: 1-3

Means for assessing specific program needs as determined from occupational surveys and other demographic data; follow-up techniques to evaluate the overall effectiveness of the program to the manpower needs in a given labor market area. Identical with SEC 628. May be repeated to a maximum of three hours with approval of school provided the same topic is not duplicated. May be taught concurrently with AGV 528. Cannot receive credit for both AGV 528 and AGV 628.

Typically Offered: Demand

AGV 676 - Teaching of Industrial/Vocational Subjects

Credit Hours: 3

Instructional methods and techniques of teaching industrial/vocational education subjects; attaining objectives of career and technical education, design and evaluation of instructional units; classroom and laboratory management; and development of evaluative instruments. May be taught concurrently with AGV 576. Cannot receive credit for both AGV 576 and AGV 676.

Lecture Contact Hours: 3

Typically Offered: Demand

AGV 724 - Organization and Administration of Vocational Education

Credit Hours: 1-3

Problems, procedures and local, state and federal relationships in the organization and administration of vocational education in the contemporary school. Identical with SFR 724. May be repeated to a maximum of three hours provided the same topic is not duplicated.

Prerequisite: permission of instructor.

Typically Offered: Demand

AGV 726 - Seminar in Industrial Education

Credit Hours: 3

Presentation and discussion of professional or technical problems in the organization and management of programs and facilities in industrial education.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

AGV 760 - Special Investigations

Credit Hours: 1-5

The student, in consultation with the advisor, selects for in-depth study an area determined by the interest/career objectives of the student. Based on demand and timeliness of the subject, a cluster study group may engage in a joint investigation.

Prerequisite: permission of instructor.

Typically Offered: Demand

Anesthesia, Nurse

ANE 604 - Preparing for Anesthesia School in a Semester (PASS)

Credit Hours: 3

This course prepares students for application to the entry level Doctor of Nurse Anesthesiology program (BS to DNAP) or for students who are interested in becoming a Certified Registered Nurse Anesthesiologists. This course introduces and reviews topics critical to success in a Nurse Anesthesiology program. Successful completion of the course does not guarantee admission into the program, which is competitive. Successful completion of this course will meet the organic chemistry program admission requirement for Missouri State University School of Nurse Anesthesia Practice program.

Prerequisite: licensure as a registered nurse or permission by the Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ANE 620 - RNFA Introductory Principles

Credit Hours: 1

Beginning RNFA course will cover RNFA's collaborating with other health care providers during the peri-operative period focusing on safe effective patient care. Multiple techniques will be covered, instruments, medical devices, providing surgical site exposure, handling and or cutting tissue, providing homeostasis, wound care management, and suturing. Post operative patient management.

Prerequisite: acceptance into the Registered Nurse First Assist Program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

ANE 621 - RNFA Perioperative Management I

Credit Hours: 2

This course includes a distance didactic component emphasizing the expanded functions unique to the RNFA. Classes will have both synchronous and asynchronous components. Management I will cover surgical patient pre-op assessments, anatomy and physiology review and health care provider communication along with surgical instrument recognition.

Prerequisite: acceptance into the Registered Nurse First Assist Program.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

ANE 622 - RNFA Clinical Practicum**Credit Hours: 3**

Course will cover the clinical component of the RNFA curricula. Board Certified Surgeon will supervise in the area of the RNFA's primary area of practice. Students are required to obtain collaboration with a surgeon of their choice to supervise in their area of practice. Final practicum review will occur during the onsite time.

Prerequisite: acceptance into the Registered Nurse First Assist Program.

Typically Offered: Fall, Spring, Summer

ANE 623 - RNFA Perioperative Management II**Credit Hours: 2**

This course includes distance didactic components emphasizing the expanded functions unique to the RNFA. Classes will have both synchronous and asynchronous components. Management II will include demonstration of expanded skills and cover surgical site exposure, handling tissue, providing homeostasis along with suturing and wound management. Patient discharge planning and community collaboration is included.

Prerequisite: acceptance into the Registered Nurse First Assist Program.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

ANE 624 - RNFA Cumulative Review**Credit Hours: 1**

Course will cover RNFA's collaborating with other health care providers during the peri-operative period focusing on safe effective patient care, and preparation for the RNFA certification exam.

Prerequisite: acceptance into the Registered Nurse First Assist Program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

ANE 700 - Informatics and Graduate Studies for Anesthesia**Credit Hours: 3**

Study of the researcher role, research process, research skills, scientific writing, professional development, and research ethics. Study the use of technology in graduate studies. Dissect the meaning of a capstone project and its purpose.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

ANE 702 - Clinical Conference I

Credit Hours: 1

Review of significant cases involving complex anesthesia considerations.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 705 - Clinical Conference II

Credit Hours: 1

A review of significant cases involving complex anesthesia considerations.

Prerequisite: ANE 702.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 708 - Clinical Conference III

Credit Hours: 1

Continuing review of significant cases involving complex anesthesia considerations.

Prerequisite: ANE 705.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 711 - Clinical Conference IV

Credit Hours: 1

Continuing review of significant cases involving complex anesthesia considerations.

Prerequisite: ANE 708.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 712 - Special Topics in Anesthesia

Credit Hours: 3-6

Selected topics of an advanced nature relating specifically to anesthesia and accreditation requirements which will vary from semester to semester. Variable content course. May be repeated to a maximum of six hours provided topics are different. Can be seated or distance as accreditation needs dictate.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program and permission of the Program Director.

Typically Offered: Fall, Spring, Summer

ANE 714 - Orientation to Clinical Anesthesia

Credit Hours: 1

Introduction to anesthesia equipment, monitoring equipment, positioning, intravenous considerations, records, departmental management, ethics, departmental organization and function, legal and professional aspects.

Prerequisite: permission from program director.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 717 - Physics and Chemistry of Anesthesia

Credit Hours: 1

A presentation of the principles and laws of physics and chemistry applicable to the field of anesthesia.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 720 - General Principles of Anesthesia

Credit Hours: 3

A presentation of the principles of laws of physics and chemistry applicable to the field of anesthesia long with an in-depth analysis of structure and function of the cardiac, respiratory, circulatory, endocrine, hepatic, renal, neurologic, autonomic, and central nervous systems.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ANE 721 - Equipment, Instrumentation, and Technology for Anesthesia

Credit Hours: 3

A thorough review of anesthesia delivery systems, airway equipment, and the multiple monitoring devices that may be utilized during anesthesia. A review of principles and laws of physics, biochemistry, and chemistry as applicable to the field of

anesthesia. An in-depth review of equipment, instrumentation, and technology needed for anesthesia management. Various types of radiological imaging and radiation safety will be presented.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice (BS-DNAP) program.

Lecture Contact Hours: 3

Typically Offered: Fall

ANE 723 - Application of Anatomy and Physiology to Anesthesia II

Credit Hours: 1

An in-depth analysis of the special relationships between anesthesiology and the endocrine, hepatic, renal, neurologic, autonomic, and central nervous systems.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ANE 726 - Introduction to Clinical Anesthesia

Credit Hours: 2

Preoperative evaluation of patients, airway management, inhalation techniques, common complications of induction and emergence.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

ANE 732 - Anesthesia for Surgical Procedures and Special Populations I

Credit Hours: 5

An in-depth review of subjects essential to the practice of anesthesia. Subjects correlating anatomy, physiology, pathophysiology, and pharmacology related to specific anesthetic patient needs for surgical or diagnostic procedures. Anesthetic needs for surgical procedures explored will include intra-abdominal, extra thoracic, neuro- skeletal, orthopedic, perineal and surgical diagnostic procedures. Exploration of special anesthetic considerations for specific populations will be included involving the following populations: pediatric, obstetric, geriatric, and obese patients.

Prerequisite: ANE 720.

Lecture Contact Hours: 5

Typically Offered: Fall

ANE 734 - Advanced Physical Assessment and Clinical Reasoning

Credit Hours: 5

Advanced critical thinking, communication and diagnostic skills needed to obtain comprehensive and focused history and physical exams, analyze assessment data, generate differential diagnoses, evaluate and utilize screening and diagnostic modalities appropriately. An evidence-based practice framework will be utilized. Identical with NUR 734. Cannot receive credit for both

ANE 734 and NUR 734.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3 **Lab Contact Hours:** 6

Typically Offered: Fall

ANE 735 - Clinical Practicum

Credit Hours: 3-10

Clinical experience in the anesthesiology department at multiple clinical sites. Specialty content may be included as part of the practicum experience. May be repeated to a maximum of 44 hours. Hours are based on clinical practicum days in the clinical area. Graded Pass/Not Pass only.

Prerequisite: admission to Doctor of Nurse Anesthesia Practice program.

Typically Offered: Fall, Spring, Summer

ANE 742 - Clinical Physiology

Credit Hours: 4

Clinical interpretation of organ systems with a consideration of disease etiology and diagnosis. Current research topics will be introduced and discussed.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 4

Typically Offered: Spring

ANE 744 - Pharmacology in Anesthesia

Credit Hours: 2

A review of the effects of drugs required by patients with preexisting medical conditions and their continuation in the perioperative period.

Prerequisite: ANE 720.

Lecture Contact Hours: 2

Typically Offered: Summer

ANE 745 - Anesthesia Pharmacology I

Credit Hours: 4

A study of the principles of clinical pharmacology and the pharmacokinetics and pharmacodynamics of commonly used anesthetic agents during the perioperative period. A review of the effects of drugs required by patients during the perioperative period with and without preexisting medical conditions and their continuation in the perioperative period. Detailed study of inhalational agents and stages of anesthesia, opioids, opioid agonists/antagonists, barbiturates and non-barbiturates, and drug interactions.

Prerequisite: BMS 620.

Lecture Contact Hours: 4

Typically Offered: Fall

ANE 746 - Anesthesia Pharmacology II

Credit Hours: 3

A study of the principles of clinical pharmacology and the pharmacokinetics and pharmacodynamics of commonly used anesthetic agents during the perioperative period. A review of the effects of drugs required by patients during the perioperative period with and without preexisting medical conditions and their continuation in the perioperative period. Detailed study of neuromuscular blocking drugs, and local anesthetics. Course includes an introduction to autonomic pharmacology and cardiovascular pharmacology.

Prerequisite: ANE 745.

Lecture Contact Hours: 3

Typically Offered: Spring

ANE 750 - Anesthesia for Surgical Procedures and Special Populations II

Credit Hours: 5

An in-depth review of the subjects essential to the practice of anesthesia. Subjects correlating anatomy, physiology, pathophysiology, and pharmacology related to specific patient needs for surgical or diagnostic procedures. Surgical procedures covered will include extracranial and intracranial, intrathoracic, neck, vascular, diagnostic and therapeutic procedures. Patient populations will include trauma, burns, resuscitations, organ transplants, organ procurement and laser procedures.

Prerequisite: ANE 720.

Lecture Contact Hours: 5

Typically Offered: Spring

ANE 754 - Healthcare Ethics for Anesthesia Providers

Credit Hours: 3

This course is designed to apply the principles of biomedical and health care ethics toward a more informed understanding of realistic cases of ethical decision making in the healthcare environment, for anesthesia providers. The course looks towards a systematic approach to ethical problems that arise in the clinical and administrative settings, as well as the ethical responsibilities of all participants in each of these areas.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Spring

ANE 800 - Leadership for Evidence-Based Practice

Credit Hours: 3

Advanced critical thinking, communication and diagnostic skills needed to obtain comprehensive and focused history and physical exams, analyze assessment data, generate differential diagnosis, evaluate and utilize screening and diagnostic modalities appropriately. An evidence-based practice framework will be utilized. Cannot receive credit for both ANE 800 and NUR 800.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Summer

ANE 803 - Human Factors and Patient Safety for Healthcare

Credit Hours: 3

Examines healthcare from a safety perspective and how to facilitate change for caregivers at the "sharp end of the stick" according to the Reason theory of errors. Discussion of an environment and philosophy of safety. Explores basis of human error, patient safety and quality assurance by introducing a system approach, including crisis management, simulation and teamwork in healthcare.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Spring

ANE 804 - Business of Anesthesia

Credit Hours: 3

Comprehensive study of the business of anesthesia, and all models of practice and billing. Legal and healthcare implications explored. Analysis of the structure, function and outcomes of healthcare delivery systems and organizations. Designed for practicing CRNA's and DNAP students. Course design is both seated and distance.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ANE 806 - Professional Practice in Anesthesia

Credit Hours: 3

Emphasizes learning through advanced clinical experiences in anesthesia practice. Explores concepts of nurse anesthesia practice, competence and expertise, and incorporation of critical thinking skills and reflection as an evaluation method. The focus is on methods of determining best practice through identification of problems, review, and systematic evaluation of current research, interdisciplinary collaboration and consideration of economic and other factors that impact patient outcomes. A professional portfolio will be expected at the conclusion of the program.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall

ANE 807 - Anesthesia and Healthcare Policy

Credit Hours: 3

Examines government and non-government issues that influence nurse anesthesia practice. Focuses on development of skills that contribute to leadership and personal effectiveness in implementing change in nurse anesthesia and healthcare. Emphasizes interdisciplinary relationships between the CRNA, nurse, physician, and administration, policy makers and other key stakeholders that format healthcare policy; equips the student with up-to-date information on various global health topics and perspectives; a basic perspective of health policy issues in different geographical regions, and explains how global health policy is affected by significant world events, including coverage of new infectious diseases with human rights, stigma of diseases and disclosure. Comparison of health and healthcare universally.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Summer

ANE 810 - Health and Wellness in the Healthcare Setting**Credit Hours:** 3

Health and wellness in the healthcare setting for the healthcare provider in modern day medical settings. Health coping strategies investigated. Pitfalls of stressors in healthcare with evidence-based solutions. Addiction and recovery for healthcare professionals reviewed with AANA wellness modules, and peer assistance as well as University assistance for students reviewed. Health lifestyles including dietary, mental, physical, spiritual wellness for healthcare providers discussed.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ANE 897 - Research for Scholarly Project**Credit Hours:** 3

The Capstone Project is the culminating experience of the DNAP program, and presents an opportunity for students to investigate a problem relevant to the practice of anesthesia. Because nurse anesthesia practice includes administrative and educational roles as well as clinical practice, the project is open to a wide variety of ideas and interests. Students are encouraged to be creative in identifying problems and suggesting corrective actions; solutions must be based on sound evidence. ANE 897 and ANE 898 are consecutive courses to allow the student time to complete the Capstone Project during their anesthesia study periods. The initial class provides direction and approval for the class, while the latter class provides presentation and evaluation of the determined project. Graded Pass/Not Pass only.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

ANE 898 - Capstone Project Presentation**Credit Hours:** 3

The Capstone Project is the culminating experience of the DNAP program, and presents an opportunity for students to investigate a problem relevant to the practice of anesthesia. Because nurse anesthesia practice includes administrative and educational roles

as well as clinical practice, the project is open to a wide variety of ideas and interests. Students are encouraged to be creative in identifying problems and suggesting corrective actions; solutions must be based on sound evidence. ANE 897 and ANE 898 are consecutive courses to allow the student time to complete the Capstone Project during their anesthesia study periods. The initial class provides direction and approval for the class, while the latter class provides presentation and evaluation of the determined project.

Prerequisite: ANE 897 and admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Spring

Anthropology

ANT 645 - Cultural Resource Management

Credit Hours: 3

An examination of laws and regulations pertaining to the preservation of American history and culture and the professional management and preservation of ethnic, historic, and prehistoric cultural resources. May be taught concurrently with ANT 545. Cannot receive credit for both ANT 545 and ANT 645.

Lecture Contact Hours: 3

Typically Offered: Fall

ANT 795 - Directed Readings in Anthropology

Credit Hours: 1-3

Supervised readings in preparation for a practicum or thesis project.

Prerequisite: permission of instructor.

Typically Offered: Demand

Art

ART 606 - Historical Perspectives in Art Education

Credit Hours: 3

The emphasis of this course will be to develop a series of papers directed at critical examinations of historical and current philosophical perspectives in Art Education. A variety of research methods are incorporated in the course and qualitative research is emphasized. The concluding component of the course is the development of a paper suitable for publication or presentation.

Lecture Contact Hours: 3

Typically Offered: Fall

ART 615 - Contemporary Curriculum and Pedagogy in Art Education

Credit Hours: 3

This course will emphasize pedagogical and curricular issues in Art Education designed to enhance professional skills. Students will investigate a variety of topics germane to personal teaching practices, including but not limited to: social, historical, pedagogical, philosophical, and evaluative topics within particular cultural contextualization.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Spring

ART 619 - Societal Influences in Art Education**Credit Hours: 3**

In this course, the emphasis will be placed on historical and contemporary cultural views of Native Americana in the Southwest. The curriculum will address, from primary sources, the studio processes that reflect Native American aesthetical, critical, historical, and cultural components. This course is designed to provide a foundation of knowledge and pragmatic skills to enhance pedagogy. This course will emphasize visual research as a reciprocal aspect of studio production. Students will investigate the social, historical, pedagogical, philosophical, and evaluative topics germane to teaching Southwest Native American cultural contextualization. This course will include an introduction to cultural issues, diversity, and related perspectives in education. Examination of individual differences in ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation, and geographic area in the context of education and society. Development of skills, knowledge, and dispositions related to teaching and learning in varied settings with diverse learners required of all educators to be effective in a global society.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Spring

ART 671 - Islamic Art**Credit Hours: 3**

The art and architecture produced in the lands under the influence of the Islamic religion. May be taught concurrently with ART 471. Cannot receive credit for both ART 471 and ART 671.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 672 - Medieval Art**Credit Hours: 3**

Painting, sculpture, and architecture of Europe from the fourth century through the fourteenth century. The course emphasizes the development of a distinctly European art and culture. May be taught concurrently with ART 472. Cannot receive credit for both ART 472 and ART 672.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 675 - Art of the Renaissance

Credit Hours: 3

A survey of painting, sculpture, and architecture in Europe from 1300-1575. May be taught concurrently with ART 475. Cannot receive credit for both ART 475 and ART 675.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 676 - Women and Art

Credit Hours: 3

The course examines women's roles and contributions in the history of art and culture. May be taught concurrently with ART 476. Cannot receive credit for both ART 476 and ART 676.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 678 - Baroque Art

Credit Hours: 3

The major figures and developments in art and architecture from Mannerism through the Rococo in Italy and Northern Europe. May be taught concurrently with ART 478. Cannot receive credit for both ART 478 and ART 678.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 680 - Modern Art

Credit Hours: 3

A study of the objects, artists, ideas, and movements which are a part of the modern and late modern tradition from the mid 19th Century through the period following the Second World War. May be taught concurrently with ART 480. Cannot receive credit for both ART 480 and ART 680.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ART 684 - Contemporary Art

Credit Hours: 3

This course will emphasize the issues raised during the transition to "Post-Modern" culture in the last decades of the 20th Century and the beginning years of the 21st Century. The approach and the assignments will employ theoretical and critical as well as historical thinking. May be taught concurrently with ART 484. Cannot receive credit for both ART 484 and ART 684.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 685 - Art of Mesoamerica

Credit Hours: 3

The art and architecture of Mesoamerica and the cultures that produced it. May be taught concurrently with ART 485. Cannot receive credit for both ART 485 and ART 685.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 686 - Art of Africa

Credit Hours: 3

The art and architecture of Africa and the cultures that produced it. May be taught concurrently with ART 486. Cannot receive credit for both ART 486 and ART 686.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 687 - Art of the Americas

Credit Hours: 3

The art and architecture of North America, Central America, and South America and the cultures that produced it. May be taught concurrently with ART 487. Cannot receive credit for both ART 487 and ART 687.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 690 - Art Studio Workshops for Art Educators

Credit Hours: 2-3

Focused study in specific studio area, emphasis on upgrading skills and extending understanding of aesthetic and visual qualities. Variable content course. May be repeated to a maximum of six hours. May be taught concurrently with ART 590. Cannot receive credit for both ART 590 and ART 690.

Typically Offered: Fall, Spring

ART 692 - Art and Theory**Credit Hours:** 3

This course will introduce students to a range of critical art theories from the late 19th Century through the 21st Century, addressing what has been thought and written about art from various perspectives. May be taught concurrently with ART 492. Cannot receive credit for both ART 492 and ART 692.

Prerequisite: 3 hours of art history at the undergraduate upper division level or graduate level and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

ART 698 - Seminar in Art Education**Credit Hours:** 1-3

In-depth study of specific topics and/or interaction with leaders in the fields of aesthetics, art criticism, art history, art making, and art education. Variable content course. May be repeated to a maximum of six hours. May be taught concurrently with ART 598. Cannot receive credit for both ART 598 and ART 698.

Typically Offered: Summer

ART 699 - Exploratory Graduate Studio**Credit Hours:** 3

Students enrich their individual research by improving their current technical proficiencies and/or by implementing new artistic methods in an exploratory setting. In this studio, students add innovative approaches to their practice while accessing the skills of graduate faculty. May be repeated.

Prerequisite: permission of instructor.

Lab Contact Hours: 6

Typically Offered: Demand

ART 700 - Historical Perspectives in Art Education**Credit Hours:** 3

A history of ideas in art education and the individuals who have made significant contributions to the field; overview of beliefs, values, and practices and the role of art and art education in society.

Lecture Contact Hours: 3

Typically Offered: Fall

ART 701 - Directed Graduate Studio I

Credit Hours: 3

Mentored graduate research in visual art/design in preparation for thesis development. Students work one-on-one with faculty who supervise their research through the development of theory, technique, and/or concepts. Course content to be determined by the student under the supervision of a graduate faculty member.

Prerequisite: admission to the MFA in Visual Studies program and permission of instructor.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

ART 702 - Directed Graduate Studio II

Credit Hours: 3

Continuation of ART 701. Mentored graduate research in visual art/design in preparation for thesis development. Students work one-on-one with faculty who supervise their research through the development of theory, technique, and/or concepts. Course content to be determined by student under the supervision of a graduate faculty member.

Prerequisite: ART 701 and permission of instructor.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

ART 703 - Directed Graduate Studio III

Credit Hours: 3

Continuation of ART 702. Mentored graduate research in visual art/design in preparation for thesis development. Students work one-on-one with faculty who supervise their research through the development of theory, technique, and/or concepts. Course content to be determined by student under the supervision of a graduate faculty member.

Prerequisite: ART 702 and permission of instructor.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

ART 704 - Directed Graduate Studio IV

Credit Hours: 3

Continuation of ART 703. Mentored graduate research in visual art/design in preparation for thesis development. Students work one-on-one with faculty who supervise their research through the development of theory, technique, and/or concepts. Course content to be determined by student under the supervision of a graduate faculty member.

Prerequisite: ART 703 and permission of instructor.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

ART 705 - Interdisciplinary Graduate Critique

Credit Hours: 3

Interdisciplinary graduate critique class that emphasizes the development of individual studio research. Students discuss and develop conceptual, technical, and aesthetic practices in an interdisciplinary critique forum that nurtures cross-disciplinary awareness and approaches. May be repeated.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ART 710 - Professional Practices

Credit Hours: 3

A comprehensive study in theoretical and practical aspects of succeeding as a practicing artist or designer both inside and outside the academic setting. Students will survey the procedure and common practices expected of the artist or designer as a productive member of the professional community and educator in the field. This course should be taken before the Thesis course at the end of the student's graduate career.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

ART 720 - Introducing Art Criticism/Aesthetics/Culture

Credit Hours: 3

This course offers philosophical and critical inquiry focusing on aesthetic theories and art criticism as they apply to historical and contemporary settings. The course will provide an overview of the history of aesthetics in the Western and Non-Western tradition that will focus on the central questions of: defining beauty, evaluating the artistic object, determining what external factors are relevant to aesthetic judgments, and analyzing the inter-relationships between artist, audience, and artistic object. Some of the major topics in the course include various definitions of art, the nature of aesthetic experience, and the relationship between art and morality. This course also examines how the western conception of art and aesthetic experience can differ from that held by members of non-western cultures. The major topics to be considered are: philosophical foundations, mimetic theory, expressionistic theory, formalistic theory, pragmatic theory, relativist vs. objectivist theory, philosophical Foundations, art and politics, art and culture, art and religion, art and censorship.

Lecture Contact Hours: 3

Typically Offered: Summer

ART 730 - Art Processes for Special-Needs Populations

Credit Hours: 3

This course examines the history of Special Education in the American public education system, as well as what it means to be a student with a special need today. This course is designed to provide an overview of the special education process while focusing on various types of learners with special needs, including children with disabilities, gifted learners, and children at risk. Topics include: legal requirements and laws, partnering with parents/families, topics on public laws relating to individuals with disabilities, categories of exceptionality, identification and intervention, collaboration, identification and assessment of children, inclusion, coordinating with various agencies and specialists, and planning, delivering, and documenting educational services. This course focuses on the legal, social and cultural implications of having students with special needs in school in America today. The current trend in American schools is the full inclusion of students with disabilities into the general education environment, making it the responsibility of the classroom teacher to effectively integrate all students into the classroom. This course aims to teach about the Individual Education Plan (IEP) that is developed for every student in special education, and how to use that as a teaching tool.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Spring

ART 740 - Artistic Practices I

Credit Hours: 3

In this course, the student will examine, develop, and enhance studio production, media manipulation, and technical proficiency. Personal and professional artistic development will include procedural, aesthetical, critical, historical, and cultural components. An exploration of the evolution and translation of visual and textual research into personal, thematic imagery will be the essential component of this course. To provide a broad base for experiential knowledge, this course will emphasize visual research as a reciprocal aspect of studio production. In this manner, critical and analytical responses to topics are designed to provide a catalyst for visual and textual reactions. Specifically, students will investigate social, historical, pedagogical, philosophical, and evaluative topics germane to personal thematic development of imagery.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Summer

ART 745 - Artistic Practices II

Credit Hours: 3

This course offers strategies based on the growth of artistic expression, creative philosophies of and contemporary issues in visual arts. This course prepares students to create art through research on aesthetics and various processes. This course aims to examine, develop, and enhance studio production, media manipulation, and technical proficiency. Personal and professional artistic development will include procedural, aesthetical, critical, historical, and cultural components. An analytical reflection both in studio and in written form of the personal explorations (visual and textual research into personal, thematic imagery) will be the essential component of this course. This course will continue the personal, experiential knowledge, emphasizing visual research as a reciprocal aspect of studio production. Critical and analytical responses to personal topics provide a catalyst for visual and textual reactions. Students will continue to investigate personally relevant socio-cultural, philosophical, historical and contemporary imagery germane to personal thematic development.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Summer

ART 760 - Contemporary Issues and Current Trends in Art Education

Credit Hours: 3

Critical examination of current issues and theories concerning the teaching of art; analysis of relationships between historical purposes and current practice; interpretation and evaluation of recent research.

Lecture Contact Hours: 3

Typically Offered: Spring

ART 761 - Educational Research Methodology**Credit Hours: 3**

In this course, the student will examine current philosophical, curricular, and pedagogical issues in Art Education. Critical and analytical responses to topics are designed to provide a catalyst for visual and textual reactions. Specifically, students will investigate social, historical, pedagogical, philosophical, managerial and evaluative topics germane to understanding art practices and contemporary research. Survey of research methods; research design and evaluation; problems of interpretation and application; and, development of a formal research proposal are major components of this course. In this course, assistance is given in the development of a research proposal that may become the basis for a Master's Thesis, either textual or visual or a combination. This will be determined during this course with advice from the Graduate Committee.

Lecture Contact Hours: 3

Typically Offered: Fall

ART 764 - Thesis Preparation in Studio I**Credit Hours: 3**

The major goal of this course is to develop a prospectus that includes annotated references, a detailed outline for the thesis, and preliminary work on the written thesis or studio component. Through this course, graduate students should be able to advance their knowledge and experience in the studio through increasing levels of accomplishment. This course provides students with an opportunity to explore media and technique at higher levels of practice and creativity. The culminating research and creative experience for the MAE student is the written thesis preparation or studio practice. This research opportunity allows the graduate student to pursue focused investigation into a topic relative to their particular interests and needs. The studio/thesis combines visual and written research with the primary objective of creating a body of artwork supported by a written explication. Under the supervision of a graduate faculty member, graduate students in this course will develop a research problem and write a thesis statement. Some of the course topics are advanced compositional structures, integration of an increasingly large set of formal principles, emulation of historical styles, and approaches in various forms of art.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Fall

ART 765 - Thesis Preparation in Studio II**Credit Hours: 3**

This course aims to assist students complete their exhibition catalogue that includes annotated references, a detailed outline for the studio component. This course will be split into two sections; preparation for the required MAE exhibition and advanced professional practices. However, the focus will center on the preparation for studio production. This class will be conducted in a lecture/seminar format. Students will have the opportunity for input about additional topics covered in this class. Guest speakers,

hands-on workshops, class discussions and demonstrations will supplement lectures. The culminating research and creative experiences for the MAE student is the studio practice. This research opportunity allows the graduate student to pursue focused investigation into a topic relative to their particular interests and needs in studio art. The studio combines visual and written explanation with the primary objective of creating a body of artwork supported by a written explanation. Under the supervision of a graduate faculty member and graduate committee, graduate students will complete the body of work in studio. The instructor will formally review the studio component in the beginning stages with the responsibility of assessing the ideation, style, technique, and media that will best communicate the purpose of the artwork.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Spring

ART 766 - Written Thesis Preparation I

Credit Hours: 3

This course is a continuation of ART 761 wherein the students will continue to examine current philosophical, curricular, and pedagogical issues in Art Education. Critical and analytical responses to topics are designed to provide a catalyst for visual and textual reactions. Specifically, students will investigate social, historical, pedagogical, philosophical, managerial and evaluative topics germane to understanding art practices and contemporary research. In this course, the development of the research proposal is required, which will become the Thesis. This will be determined during this course with advice from the Graduate Committee.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Fall

ART 767 - Written Thesis Preparation II

Credit Hours: 3

This course is a continuation of ART 766 wherein the student will continue to examine current philosophical, curricular, and pedagogical issues in Art Education. Critical and analytical responses to topics are designed to provide a catalyst for thesis development. Specifically, students will investigate social, historical, pedagogical, philosophical, managerial and evaluative topics germane to understanding art practices and contemporary research. Use of selected research methods; research design and evaluation; interpretation and application; and development of the thesis are major components. Selection of the Graduate Committee is required in this course.

Prerequisite: ART 766.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Spring

ART 783 - Practicum in Art Education and Educational Workshops

Credit Hours: 3

Observation and classroom teaching experiences; writing unit and lesson plans; classroom motivation, management and discipline; educational seminar workshops; and exhibition of K-12 student artworks.

Prerequisite: ART 360 and ART 366 and 30 hours of studio art.

Lecture Contact Hours: 2 Lab Contact Hours: 3

Typically Offered: Fall

ART 785 - Independent Study

Credit Hours: 3

Independent work in one studio area, directed and critiqued by studio advisor. May be repeated to a maximum of nine hours.

Prerequisite: portfolio review of work in selected studio area.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

ART 788 - Exhibition Presentation

Credit Hours: 3

This course provides a critical backdrop for graduate students working towards their final graduation requirements and preparation for professional practice. The MAE exhibition is considered a professionally installed exhibition and is similar to all other exhibits that are scheduled in a gallery setting in regard to deadlines, contractual agreements, and required support materials. It is required that students adhere to all deadlines and requirements in a responsible and professional manner. Students are expected to be fully prepared for all aspects of the exhibition including: completed artwork and required support materials; professional presentation of work; installation of their own work and help with overall exhibit layout; adherence to arranged gallery schedule for installation, take down, and needed gallery repairs. The successful completion of the MAE degree requires a professional installation and presentation of a graduate level thesis body of work in a formal public exhibition with an oral presentation, a fully researched exhibition catalogue in critical support of the work and a formal oral defense. This course consists of facilitated discussions; writings, readings, oral presentations, guided research, and other academic activities related to the MAE students' studio concentrations and final exit requirements. The class aims to help students deepen their relationship to their work, and to develop an ease with, and appetite for, theoretical discourse and critical dialogue to help sustain their practice in the long-term.

Prerequisite: ART 765.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Summer

ART 789 - Exhibition Presentation

Credit Hours: 3

Concepts, theories, and methodologies presented throughout the graduate program (ART 761 Educational Research Methodology, ART 766 Written Thesis Preparation I, and ART 767 Written Thesis Preparation II) are placed within a framework and are organized philosophically and instructionally to assist students with the completion of the thesis. The preparation of the thesis is anchored in a set of beliefs that guide program development and instruction, which is primarily the role of reflective decision-making. The reflective and analytical aspect may include, but not be limited to: 1) finding clear and fruitful ways of characterizing; 2) careful, well-informed consideration of possibilities or alternatives for action; and 3) thoughtful assessment of choices made and implemented. Exhibition site will be determined in consultation with the instructor. Exhibition can be on-line or on-site. This course is structured to develop student knowledge, skills, dispositions, and personal attributes associated with successful art education practice. Competencies will focus on relevant knowledge, pedagogical and professional practice, and personal attributes. The components of this course reflect the National Art Education Association (NAEA), the United States Society for Education through Art (USSEA), and The International Society for Education through Art (InSEA), which provided

topics germane to contemporary teaching, learning and assessing.

Prerequisite: ART 766.

Lecture Contact Hours: 2 **Lab Contact Hours:** 1

Typically Offered: Summer

ART 794 - Independent Study in Art History

Credit Hours: 1-3

Individual projects and special problems in Art History. May be repeated to a maximum of nine hours.

Prerequisite: permission of instructor (granted only in special circumstances).

Typically Offered: Demand

ART 795 - Graduate Internship in Art History

Credit Hours: 1-3

Student will complete various duties as assigned with art history-related organizations. These include local museums, galleries, and/or various resource-media collections. May be repeated to a maximum of six hours.

Prerequisite: permission of instructor.

Typically Offered: Demand

ART 797 - Teaching Practicum

Credit Hours: 3

This course will address topics unique to university art and design faculty and professional practices in various fields teaching visual studies. Successful completion of this course is needed to participate in Missouri State University's Teaching Assistant Program or to become a Per Course (or adjunct) instructor while enrolled in the MFA program. Students will survey topics pertaining to effective university level instruction through the exploration of course development, organization and public communication skills. Topics such as how and why students learn, where to find teaching resources and how to refine a learning environment will be discussed through a variety of formats and activities in the class. A mentor/mentee program will also be a component of this course to allow students to shadow experienced professors and learn through observation.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Fall

ART 798 - Graduate Interdisciplinary Seminar

Credit Hours: 1

Seminar exploration of current theoretical, formal, and conceptual problems in interdisciplinary approaches to visual art/design through discussion and critique. May be repeated to a maximum of six hours.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

ART 799 - Graduate Studio Thesis

Credit Hours: 6

Concentrated activity in the major field of study in preparation for the thesis exhibition/presentation. May be repeated.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

Astronomy

AST 613 - Solar and Extra-Solar Systems

Credit Hours: 3

Formation of planetary systems, planetary dynamics, and comparative planetology. Project required. May be taught concurrently with AST 313 and/or AST 513. May only receive credit for one of AST 313, AST 513, and AST 613.

Prerequisite: AST 113 or AST 114 or AST 115; and MTH 303.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

AST 615 - Stellar Structure and Evolution

Credit Hours: 3

Basic concepts of stellar structure, atmospheres, and evolution. Project required. May be taught concurrently with AST 315 and/or AST 615. May only receive credit for one of AST 315, AST 515, and AST 615.

Prerequisite: AST 113 or AST 114 or AST 115; and MTH 303.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

AST 617 - Galaxies and Cosmology

Credit Hours: 3

Study of galaxies and the Universe. Topics include the structure and content of our Galaxy and other galaxies, clusters of galaxies, the Big Bang theory (including Inflation), and the eventual fate of our Universe. Project required. May be taught concurrently with AST 317 and/or 617. May only receive credit for one of AST 317, AST 517, and AST 617.

Prerequisite: AST 113 or AST 114 or AST 115; and MTH 303.

Lecture Contact Hours: 3

Typically Offered: Spring Even

AST 711 - Astronomy for Teachers

Credit Hours: 3

Theory and techniques of observational astronomy.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

AST 713 - Advanced Planetary Studies

Credit Hours: 3

Advanced observational and theoretical studies of exoplanets using our solar system as a basis example. This course will cover methods for detecting and characterizing planets, concentrating on the vast array of exoplanets discovered.

Lecture Contact Hours: 3

Typically Offered: Fall Even

AST 719 - Advanced Astronomical Techniques

Credit Hours: 3

Advanced astronomical observational techniques in imaging, photometry, spectroscopy, and astrometry. Techniques of data and error analysis. Laboratory portion will include obtaining and analyzing observational data.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall Odd

Athletic Training

ATC 601 - Foundations of Athletic Training

Credit Hours: 1

This course will cover various aspects of the history, development, socialization and standards of practice of the athletic training profession. Key terms and concepts utilized in the field, areas of practice, roles and responsibilities, and other essential knowledge and skills for the athletic training profession will be discussed.

Lecture Contact Hours: 1

Typically Offered: Summer

ATC 602 - Foundations of Therapeutic Intervention

Credit Hours: 3

This course will provide a foundation of knowledge for injury/illness evaluation and therapeutic intervention.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Summer

ATC 604 - Clinical Skills in Athletic Training

Credit Hours: 3

Students are introduced to various procedures, techniques, principles and theories relative to development of injury and illness prevention and essential immediate and emergency management clinical skills required of an athletic trainer.

Lecture Contact Hours: 2 Lab Contact Hours: 3

Typically Offered: Summer

ATC 610 - Leadership Theory and Issues in Athletic Training

Credit Hours: 2

This course covers an examination and application of leadership and professional theories and the attributes, behaviors, and values necessary for leadership in health professions (specifically to aspects of the practice of athletic training).

Lecture Contact Hours: 2

Typically Offered: Fall

ATC 612 - Human Movement

Credit Hours: 2

This course will address the neuromotor coordination and integration of human movement. Concepts of brain mapping, the visual and vestibular systems, movement, and disassociation will be addressed.

Lab Contact Hours: 4

Typically Offered: Fall

ATC 620 - Leadership Concepts in Athletic Training

Credit Hours: 3

This course covers an examination and application of leadership and professional theories and the attributes, behaviors, and values necessary for leadership in health professions (specially to aspects of the practice of athletic training.) The organization and function of professional associations, activities that serve the professional community and service to the public, the AT's role in healthcare delivery systems, outcome measurement, the role of evidence-based practice in the AT profession, cultural competence, and medical legal situations will also be covered.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Spring

ATC 622 - Athletic Training Practicum I

Credit Hours: 2

This is a supervised, 16-week clinical experience designed to provide students familiarity with the athletic training profession and a variety of work settings. Emphasis will be placed on the foundational behaviors of athletic training, professional communication skills and an understanding of pertinent clinical practice topics and issues. Students may be required to be in attendance during periods when regular university classes are not in session.

Prerequisite: permission of program director.

Typically Offered: Fall

ATC 623 - Patient Evaluation I

Credit Hours: 3

This course provides an overview of the etiology, incidence and prevalence, signs and symptoms, course and prognosis, and medical management of common conditions impacting physical activity. Content focuses on observation and evaluation techniques for injuries/impairments affecting the lower body. Students will incorporate information gained from evaluation process and assessment techniques to make a clinical diagnosis.

Lecture Contact Hours: 3

Typically Offered: Fall

ATC 630 - Leadership Practicum

Credit Hours: 1

An intensive clinical or administrative leadership experience requiring students to apply leadership knowledge and skills to real world issues. The leadership experience must also embrace the MSU public affairs mission and culminate in a meaningful response to an issue within the athletic training profession.

Prerequisite: ATC 610 and ATC 612.

Lab Contact Hours: 2

Typically Offered: Fall

ATC 631 - AT Integrated Lab I

Credit Hours: 1

Course content emphasizes the management of patients with injuries/impairments of the lower body. Students will integrate skills and knowledge of examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment to develop and manage appropriate patient plans of care. Emphasis will be placed upon using a systematic process, critical thinking, progression of techniques, and evidence based decision making.

Lab Contact Hours: 2

Typically Offered: Fall

ATC 632 - Manual Therapy Techniques

Credit Hours: 3

Detailed analysis and application of manual therapy techniques for treating musculoskeletal pathologies involving the spine and upper and lower extremities.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

ATC 633 - Therapeutic Interventions I

Credit Hours: 3

This course will cover the theoretical and practical application of interventions (therapeutic exercise, modality devices, manual techniques) designed to enhance performance and function with an emphasis on lower extremity injuries and conditions.

Lecture Contact Hours: 3

Typically Offered: Fall

ATC 640 - Evidence-Based Practice

Credit Hours: 3

Course will analyze the clinical reasoning process used in health care disciplines, examine the different types and levels of clinical evidence and explore the implementation of evidence-based practice skills into the student's health care profession/practice.

Lecture Contact Hours: 3

Typically Offered: Fall

ATC 653 - Patient Evaluation II

Credit Hours: 3

This course provides an overview of the etiology, incidence and prevalence, signs and symptoms, course and prognosis, and medical management of common conditions impacting physical activity. Content focuses on observation and evaluation techniques for injuries/impairments affecting the upper body. Students will incorporate information gained from evaluation process and assessment techniques to make a clinical diagnosis.

Lecture Contact Hours: 3

Typically Offered: Spring

ATC 663 - Therapeutic Interventions II

Credit Hours: 3

This course builds on the knowledge and skills acquired in Therapeutic Interventions I. This course will cover the theoretical and practical application of interventions (therapeutic exercise, modality devices, manual techniques) designed to enhance performance and function with an emphasis on lower extremity injuries and conditions.

Lecture Contact Hours: 3

Typically Offered: Spring

ATC 671 - AT Integrated Lab II

Credit Hours: 1

Course content emphasizes the management of patients with musculoskeletal injuries/impairments of the upper body. Students will integrate skills and knowledge of examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment to develop and manage appropriate patient plans of care. Emphasis will be placed upon using a systematic process, critical thinking, progression of techniques, and evidence based decision making.

Lab Contact Hours: 2

Typically Offered: Spring

ATC 682 - AT Practicum II

Credit Hours: 2

This course is designed to provide students with continued familiarity with a variety of patients, diagnoses, age ranges, and situations; to see the roles of athletic trainers. This is a supervised, 16-week clinical experience that provides the opportunity to observe and apply knowledge and skills gained from didactic courses and clinical experiences. Students may be required to be in attendance during periods when regular university classes are not in session.

Prerequisite: permission of program director.

Typically Offered: Spring

ATC 697 - Special Topics

Credit Hours: 1-3

Special study of sports medicine and athletic training. Variable content course. May be repeated to a maximum of three hours. Same topic may be repeated once.

Prerequisite: permission of program director.

Typically Offered: Demand

ATC 710 - Seminar in Athletic Training

Credit Hours: 1

Provides a forum for topics germane to the clinical practice settings and transition to professional practice. Topics of interest will cover areas such as performance enhancement principles, diagnostic assessment techniques, surgical procedures, pediatric athletic medicine, clinical education principles, and current professional topics. May be repeated to a maximum of two hours.

Prerequisite: permission of instructor.

Lab Contact Hours: 2

Typically Offered: Demand

ATC 711 - Problem Based Practice

Credit Hours: 1

Students will be engaged in real cases that develop both problem solving strategies and disciplinary knowledge. Students will be placed in the active role of problem-solvers within situations that simulates the kind of problems faced by health care providers. Emphasis will be placed upon decision making and evidence based rationale. Must be repeated to a minimum of three hours.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

ATC 712 - Athletic Training Leadership Concepts and Application

Credit Hours: 2

This course introduces students to foundational understanding of leadership theories, principles, and concepts and the ability to translate this knowledge into the abilities and skills needed to positively transform contemporary health care, improve patient outcomes, advance the profession, and effectively participate in interdisciplinary teamwork.

Lecture Contact Hours: 2

Typically Offered: Summer

ATC 713 - AT Practicum III

Credit Hours: 3

This course is a structured clinical experience under the supervision of a qualified preceptor. Students are expected to develop their clinical decision making skills and apply skills and knowledge gained in didactic courses and clinical experiences. Students may be required to be in attendance during periods when regular university classes are not in session.

Prerequisite: permission of program director.

Typically Offered: Summer

ATC 723 - Movement Pattern Assessment

Credit Hours: 3

Introduction of fundamental movement patterns of the body and how to assess these movement patterns. Concepts of neuromotor human development and how these relate to the learning/patterning of these fundamental movement patterns.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

ATC 724 - AT Practicum IV

Credit Hours: 4

This course provides continued clinical practice in the form of an eight-week, immersive clinical practicum and an eight-week,

integrated clinical practicum under the supervision of a qualified preceptor. Students are expected to continue to develop their clinical decision making skills and apply skills and knowledge gained in didactic courses and clinical experiences. Students may be required to be in attendance during periods when regular university classes are not in session.

Prerequisite: permission of program director.

Typically Offered: Fall

ATC 732 - Research Methods for the Health Professions

Credit Hours: 3

This course serves as an introduction to the evaluation and application of research methodology in the context of health and human services. The specific aim of this course is to help students grasp the relations between the research question, design, and method(s), the measurement of constructs, and the data/theoretical interpretations. The material will be presented in a manner to strike a balance between fundamental, conceptual, technical, and methodological activity to scientific and clinical research. Identical with CSD 702, NUR 772, PBH 760, and RCH 730. Can only receive credit for one of the following: ATC 732, CSD 702, NUR 772, PBH 760, RCH 730.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

ATC 733 - Corrective Exercise Techniques/Movement Pattern Interventions

Credit Hours: 3

This course will cover the corrections of impairments and compensations to the fundamental movement patterns.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

ATC 734 - AT Program Management and Professional Development

Credit Hours: 4

This course introduces the student to the integration of the University's Public Affairs mission into the practice and management of fiscal management, marketing, and human resource functions. Discussion of regulatory systems, legal considerations, global issues, and ethics in the profession will be discussed.

Prerequisite: permission of the program director.

Lecture Contact Hours: 4

Typically Offered: Fall

ATC 741 - Therapeutic Interventions III

Credit Hours: 1

This course builds on the knowledge and skills acquired in Therapeutic Interventions I and II. This course will cover the theoretical and practical application of interventions with an emphasis on manual techniques and corrective exercises.

Lab Contact Hours: 2

Typically Offered: Spring

ATC 743 - Advanced Therapeutic Interventions

Credit Hours: 3

Advanced concepts and evidence-based principles of rehabilitation programs. Enhancement of previously learned therapeutic exercise techniques and integration of therapeutic modalities and therapeutic exercise, including objective and functional goal setting and evaluation for appropriate progression and expedited return to activity.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

ATC 747 - Medical Conditions in Athletic Training

Credit Hours: 3

This course will provide students an understanding of the comprehensive health care program on general medical topics such as injury/illness prevention, medical condition recognition, medical intervention, patient referral, and public health issues. Content is provided from the perspective of department faculty and community specialists.

Lecture Contact Hours: 2 **Lab Contact Hours:** 1

Typically Offered: Fall

ATC 752 - Pharmacological Issues in Athletic Training

Credit Hours: 2

This course focuses on pharmacological issues related to the practice of athletic training. Students in this course will study the pharmacokinetics and pharmacodynamics of therapeutic medications associated with athletic training as well as performance enhancement drugs. Students will review administrative and legal issues with drug testing and managing medications in athletic training practice settings.

Lecture Contact Hours: 2

Typically Offered: Spring

ATC 753 - Pharmacology/General Medical Concepts

Credit Hours: 3

This course will expose students to various medical specialties which contribute to an understanding of comprehensive health care program. Emphasis on subject matter and skills necessary to recognize potential problems, help in understanding the interventions, and develop techniques for referral.

Prerequisite: permission of program director.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

ATC 773 - Athletic Training Seminar

Credit Hours: 3

This course will allow students to review their previous coursework, discuss current issues facing the profession, and develop personal learning plans for their future endeavors.

Lecture Contact Hours: 3

Typically Offered: Spring

ATC 784 - AT Practicum V

Credit Hours: 4

This course is the final clinical practicum. Students will complete both an immersive and an integrated clinical experience. Students will continue to develop their clinical decision making skills and applying skills and knowledge gained in didactic courses and clinical experiences. Students may be required to be in attendance during periods when regular university classes are not in session.

Prerequisite: permission of program director.

Typically Offered: Spring

ATC 791 - AT Research Appraisal and Project

Credit Hours: 1

In-depth scientific study of an area of interest that culminates in a scholarly project.

Lecture Contact Hours: 1

Typically Offered: Spring

ATC 792 - Independent Study in Athletic Training

Credit Hours: 1-3

The course provides opportunities to pursue specific subject areas of interest in athletic training or as needs arise which are not covered by courses or content in the program. May be repeated to a maximum of three hours.

Prerequisite: permission of program director.

Typically Offered: Demand

ATC 797 - Non-thesis Project

Credit Hours: 1-3

Active participation in the ongoing research and/or clinical activities of athletic training faculty or clinical experience supervisor.

Culminates in a presentation of an extensive scholarly project. Must be repeated to a minimum of three hours.

Prerequisite: ATC 732 and permission of project advisor.

Typically Offered: Fall, Spring, Summer

ATC 798 - Special Topics

Credit Hours: 1-2

Special study of sports medicine and athletic training. Variable content course. May be repeated to a maximum of four hours. Same topic may be repeated once.

Prerequisite: permission of program director.

Typically Offered: Demand

ATC 799 - Thesis

Credit Hours: 1-6

Demonstration of the capacity for research and independent thought culminating in a thesis. Must be repeated to a minimum of six hours.

Prerequisite: ATC 732 and permission of research advisor.

Typically Offered: Fall, Spring, Summer

Biology

BIO 601 - Natural History Museum Techniques

Credit Hours: 2

Techniques in the development of natural history museum displays including making models, design of displays, writing educational text, and other techniques. Course will be taught off-site at the Bull Shoals Field Station and Chase Studio. May be taught concurrently with BIO 501. Cannot receive credit for both BIO 501 and BIO 601.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Demand

BIO 602 - Sustainability Science in Practice

Credit Hours: 3

After exploring the three pillars of sustainability, students will embark on developing a research proposal in their area of study. Research in virtually all areas related to sustainable development can be a focus of a student's research proposal. For example: food, health, education, economics, social and gender equity, energy, law and diplomacy, land use change, biodiversity loss, chemical pollution, freshwater use, water quality, climate change mitigation, environmental remediation, smart structures, alternative energy, supply chain logistics and smart grids. May be taught concurrently with BIO 502. Cannot receive credit for both BIO 502 and BIO 602.

Lecture Contact Hours: 3

Typically Offered: Summer

BIO 603 - Epigenetics and Human Health

Credit Hours: 3

Includes principles of epigenetic regulation of gene expression (e.g. chromatin, DNA modifications, non-coding RNA, and RNA editing). Discussion topics include regulation of these events, and molecular techniques that detect epigenetic marks. Furthermore, students will investigate recent literature to describe current understanding of relationships between epigenetic mechanisms, the environment (e.g. aging, diet, exercise, chemical exposure, malignancies), and organismal fitness. Identical with BMS 603. May be taught concurrently with BIO 503. Can only receive credit for one of the following: BIO 503, BIO 603, BMS 503, BMS 603.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

BIO 604 - Plant-Animal Interactions

Credit Hours: 3

The theories, evolutionary and ecological patterns, and major current topics in plant-animal interactions. This course encourages independence in learning, synthesizing, and communicating science via discussions and presentations. Topics are flexible and guided by student interests. May be taught concurrently with BIO 504. Cannot receive credit for both BIO 504 and BIO 604.

Recommended Prerequisite: BIO 367 and BIO 368; or BIO 436.

Lecture Contact Hours: 3

Typically Offered: Spring

BIO 605 - Human Nature

Credit Hours: 3

A survey of current biological research on the behavioral, psychological, and cognitive dimensions of human biology. This course emphasizes the evolution and function of human social behaviors and value systems, but also addresses the genetics of human psychological diversity, the genetics of human-ape divergence, and the neurobiology of human cognition. May be taught concurrently with BIO 505. Cannot receive credit for both BIO 505 and BIO 605.

Recommended Prerequisite: general biology with evolution; genetics; college algebra; and introductory psychology.

Lecture Contact Hours: 3

Typically Offered: Fall

BIO 608 - Environmental Microbiology

Credit Hours: 3

The study of the ecology of microorganisms and the applied use of microorganisms by man in the environment. Laboratory will emphasize current methods used in the field of environmental microbiology. May be taught concurrently with BIO 508. Cannot receive credit for both BIO 508 and BIO 608.

Recommended Prerequisite: microbiology.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

BIO 609 - Stream Ecology

Credit Hours: 4

The interdisciplinary study of running waters, including study of the physical and chemical environment, trophic interactions, nutrient cycling, and the multiple impacts of humans on modifying these systems. Lectures, group discussion of readings, and laboratory and field exercises. One all-day Saturday field trip required. May be taught concurrently with BIO 509. Cannot receive credit for both BIO 509 and BIO 609.

Recommended Prerequisite: ecology course and one year of college chemistry.

Lecture Contact Hours: 3 Lab Contact Hours: 3

Typically Offered: Spring

BIO 611 - Immunology

Credit Hours: 4

A study of the immune system with emphasis on molecular and cellular mechanisms underlying host-microbe interactions, allergy, transplant rejection, cancer surveillance, and autoimmune disease. Laboratory emphasis on techniques used to address research and diagnostic problems. May be taught concurrently with BIO 511. Cannot receive credit for both BIO 511 and BIO 611.

Recommended Prerequisite: microbiology or molecular/cellular biology.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Fall

BIO 613 - Industrial Microbiology

Credit Hours: 3

An introduction to the fundamental concepts of industrial and applied microbiology. The industrial production of proteins, metabolites, polymers, biocides, and vaccines will be discussed in addition to biotransformations and environmental applications. Production improvement strategies that employ both physical and modern molecular techniques will be introduced. Laboratory will emphasize the selection of industrially important microorganisms, the theory and operation of a fermentor for the production of proteins, antibiotics, and steroids, use of analytical equipment for monitoring product formation, enzymes analysis, downstream processing, and bio-reactor construction and design. May be taught concurrently with BIO 512. Cannot receive credit for both BIO 512 and BIO 613.

Recommended Prerequisite: microbiology course.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

BIO 616 - Evolution

Credit Hours: 3

A survey of modern evolutionary biology, including the evidence that supports the theory of evolution, the natural processes that cause evolution, patterns and mechanisms of speciation, and methods for estimating evolutionary relationships. May be taught concurrently with BIO 515. Cannot receive credit for both BIO 515 and BIO 616.

Recommended Prerequisite: genetics course; and college algebra or pre-calculus mathematics course.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BIO 617 - Microbial Physiology and Metabolism

Credit Hours: 4

Physiology and anatomy of microorganisms including adaptive responses to environmental changes and microbial metabolic diversity will be discussed. Laboratory will emphasize selective isolation and identification of microorganisms, the growth dynamics of microorganisms, and responses by microorganisms to environmental changes. May be taught concurrently with BIO 517. Cannot receive credit for both BIO 517 and BIO 617.

Recommended Prerequisite: microbiology course and organic chemistry course.

Lecture Contact Hours: 2 Lab Contact Hours: 4

Typically Offered: Fall

BIO 618 - Regulatory Mechanisms

Credit Hours: 2

The regulation of gene expression and protein/enzyme activity in prokaryotes, eukaryotes and viruses. A content-based lecture and discussion course utilizing both textbook and primary literature. May be taught concurrently with BIO 518. Cannot receive credit for both BIO 518 and BIO 618.

Recommended Prerequisite: genetics, molecular/cellular biology, microbiology, or biochemistry.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Spring

BIO 620 - Pathogenic Microbiology

Credit Hours: 3

Fundamental principles of pathogenic microbiology; transmission, infection and control of the pathogen. May be taught concurrently with BIO 520. Cannot receive credit for both BIO 520 and BIO 620.

Recommended Prerequisite: microbiology course.

Lecture Contact Hours: 3

Typically Offered: Spring

BIO 621 - Marine Science for Teachers I**Credit Hours:** 2

A course designed to introduce students, particularly inservice teachers, to the study of marine science and to promote the teaching of marine biology at all grade levels. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 521. Cannot receive credit for both BIO 521 and BIO 621.

Prerequisite: 12 hours in biology.

Recommended Prerequisite: genetics course.

Lecture Contact Hours: 2

Typically Offered: Summer

BIO 623 - Marine Science for Teachers I Lab**Credit Hours:** 1

Laboratory portion of BIO 621. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 522. Cannot receive credit for both BIO 522 and BIO 623.

Prerequisite: concurrent enrollment in BIO 621.

Corequisite: BIO 621

Lab Contact Hours: 2

Typically Offered: Summer

BIO 627 - Field Biology**Credit Hours:** 1-4

Field work during an extended field trip to a specific region of North America to familiarize the student with the flora and/or fauna of that region. Course is scheduled irregularly during academic breaks and may be preceded by several lectures in preparation for the trip. May be repeated to a maximum of six hours with a maximum of three hours to be applied to the major in biology. May be taught concurrently with BIO 527. Cannot receive credit for both BIO 527 and BIO 627.

Prerequisite: permission of instructor.

Typically Offered: Demand

BIO 629 - Aquatic Botany

Credit Hours: 3

The structure, function, ecological significance, and diversity of algae and plants that occur in permanently or seasonally wet environments. Emphasis will be placed on their role in aquatic systems, strategies for coping in their watery environments, physiological characteristics, and control methods. May be taught concurrently with BIO 530. Cannot receive credit for both BIO 530 and BIO 629.

Recommended Prerequisite: introductory biology sequence.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

BIO 632 - Principles of Fisheries Management**Credit Hours: 3**

Life history, population ecology, and management of exploited freshwater and marine species. Scientific sampling and analysis of fishery populations. Characterization, history, and management principles for representative commercial and recreational fisheries. May be taught concurrently with BIO 532. Cannot receive credit for both BIO 532 and BIO 632.

Recommended Prerequisite: ecology or wildlife management course.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

BIO 633 - Wetland Ecology**Credit Hours: 4**

The composition, structure, function, and importance of wetland ecosystems. Comparisons of different wetland types, hydrology, nutrient cycles, plants and animals and their adaptations, and conservation strategies. May be taught concurrently with BIO 533. Cannot receive credit for both BIO 533 and BIO 633.

Recommended Prerequisite: ecology course; and one year of college chemistry.

Lecture Contact Hours: 3 Lab Contact Hours: 3

Typically Offered: Demand

BIO 635 - Coastal Vegetation Lab**Credit Hours: 1**

Laboratory portion of BIO 641. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 535. Cannot receive credit for both BIO 535 and BIO 635.

Prerequisite: concurrent enrollment in BIO 641.

Corequisite: BIO 641

Lab Contact Hours: 2

Typically Offered: Summer

BIO 636 - Plant Ecology

Credit Hours: 4

The dynamics, structure, and distribution of plant populations and communities, with emphasis on interactions among plants, plants and other organisms, and plants and ecosystems. Laboratory emphasis on experimental studies in the greenhouse and field. Weekend field trip is required. BIO 436 may be taught concurrently with BIO 636. Cannot receive credit for both BIO 436 and BIO 636.

Recommended Prerequisite: ecology course.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Fall

BIO 637 - Salt Marsh Plant Ecology

Credit Hours: 2

A study with emphasis on the botanical aspects of local marshes; includes plant identification, composition, structure, distribution, and development of coastal marshes. Biological and physical interrelationships. Primary productivity and relation of marshes to estuaries and associated fauna. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 537. Cannot receive credit for both BIO 537 and BIO 637.

Prerequisite: permission of advisor or department head.

Recommended Prerequisite: general biology II, plant taxonomy, ecology and plant physiology course.

Lecture Contact Hours: 2

Typically Offered: Summer

BIO 638 - Salt Marsh Plant Ecology Lab

Credit Hours: 2

Laboratory portion of BIO 637. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 538. Cannot receive credit for both BIO 538 and BIO 638.

Prerequisite: concurrent enrollment in BIO 637.

Corequisite: BIO 637

Lab Contact Hours: 4

Typically Offered: Summer

BIO 639 - Biogeography

Credit Hours: 3

Study of patterns of distribution of organisms in space and in time. May be taught concurrently with BIO 539. Cannot receive

credit for both BIO 539 and BIO 639.

Recommended Prerequisite: general biology I and II courses.

Lecture Contact Hours: 3

Typically Offered: Fall

BIO 640 - Applications of Molecular Markers

Credit Hours: 4

Introduction to the use of molecular markers in biological research. Topics covered include methods for identifying genetic variation at the molecular level and their applications to gene discovery, gene mapping, phylogenetics, forensics, conservation biology, and research in ecology and evolution. Students will complete research projects using one or more of the techniques learned. May be taught concurrently with BIO 540. Cannot receive credit for both BIO 540 and BIO 640.

Recommended Prerequisite: genetics course.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Fall Odd

BIO 641 - Coastal Vegetation

Credit Hours: 2

A broad study of the general and specific aspects of coastal vegetation, with emphasis on local examples. Vegetational composition, variation, succession, climax, and distribution. Includes aerial techniques, plant identification, delineation of vegetational types and mapping. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 534. Cannot receive credit for both BIO 534 and BIO 641.

Prerequisite: 10 hours of biology and permission of advisor or department head.

Recommended Prerequisite: general biology I and II courses.

Lecture Contact Hours: 2

Typically Offered: Summer

BIO 644 - Plant Physiology

Credit Hours: 4

Basic chemical and physical principles of plant function considering water relationships, nutrient transport, mineral nutrition, photosynthesis, respiration, and phytohormones. May be taught concurrently with BIO 544. Cannot receive credit for both BIO 544 and BIO 644.

Recommended Prerequisite: organic chemistry course.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Demand

BIO 647 - Water Resources

Credit Hours: 3

An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with GLG 647. Cannot receive credit for both BIO 647 and GLG 647. May be taught concurrently with BIO 547. Cannot receive credit for both BIO 547 and BIO 647.

Recommended Prerequisite: BIO 122 or GLG 113 or GLG 114 or GLG 115 or GRY 145.

Lecture Contact Hours: 3

Typically Offered: Spring

BIO 650 - Statistical Methods for Biologists

Credit Hours: 3

Scientific methodology, experimental design, statistical analysis, and data interpretation applied to biological questions. May be taught concurrently with BIO 550. Cannot receive credit for both BIO 550 and BIO 650.

Recommended Prerequisite: genetics course and pre-calculus mathematics course.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BIO 651 - Experimental Design for Biologists

Credit Hours: 2

The design and analysis of biological experiments, with an emphasis on the choice and interpretation of inferential statistics. Topics covered include causal inference, statistical power, general linear models, and repeated measures designs. The use of computer software to analyze real data sets from the biological literature is emphasized. May be taught concurrently with BIO 551. Cannot receive credit for both BIO 551 and BIO 651.

Recommended Prerequisite: statistics course.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Fall

BIO 654 - Marine Ichthyology

Credit Hours: 3

This course provides the student with a strong general background in the biology of marine fishes. Emphasis placed on the principles involved in the classification and taxonomy of marine and estuarine fishes. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 555. Cannot receive credit for both BIO 555 and BIO 654.

Prerequisite: 16 hours of biology and permission of advisor or department head.

Recommended Prerequisite: General Biology I and II, Genetics and Comparative Vertebrate Anatomy.

Lecture Contact Hours: 3

Typically Offered: Summer

BIO 655 - Developmental Biology

Credit Hours: 4

An in-depth study of the molecular and cellular mechanisms involved in the development of vertebrate, invertebrate, and plant systems. Lectures will emphasize fertilization, morphogenesis, differentiation, induction, regeneration, and neoplasia. Laboratory exercises will emphasize techniques utilized by developmental biologists. Review of current literature and poster presentations will be required. May be taught concurrently with BIO 355. Cannot receive credit for both BIO 355 and BIO 655.

Recommended Prerequisite: cell biology course.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Spring

BIO 656 - Marine Ichthyology Lab

Credit Hours: 3

Laboratory portion of BIO 654. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 556. Cannot receive credit for both BIO 556 and BIO 656.

Prerequisite: concurrent enrollment in BIO 654.

Corequisite: BIO 654

Lab Contact Hours: 6

Typically Offered: Summer

BIO 657 - Marine Fisheries Management

Credit Hours: 2

A course designed to familiarize students with practical marine fisheries management problems in today's real world. Covers the international and local, economic, social, legal, and political, as well as biological factors that are considered in decisions directed toward achieving optimum sustainable yield from marine resources. The history of management schemes, sources of information, current status of fishing technology, management methods, legal problems and educational needs are explored. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 557. Cannot receive credit for both BIO 557 and BIO 657.

Prerequisite: permission of instructor; and concurrent enrollment in BIO 658.

Corequisite: BIO 658

Lecture Contact Hours: 2

Typically Offered: Summer

BIO 658 - Marine Fisheries Management Lab

Credit Hours: 2

Laboratory portion of BIO 657. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 558. Cannot receive credit for both BIO 558 and BIO 658.

Prerequisite: concurrent enrollment in BIO 657.

Corequisite: BIO 657

Lab Contact Hours: 4

Typically Offered: Summer

BIO 659 - Population Genetics and Evolutionary Mechanisms**Credit Hours: 3**

The theory of genetic variation in populations, with emphasis on quantitative description of the mechanisms of biological evolution. May be taught concurrently with BIO 560. Cannot receive credit for both BIO 560 and BIO 659.

Recommended Prerequisite: evolution course and statistics course.

Lecture Contact Hours: 3

Typically Offered: Demand

BIO 661 - Environmental Issues Education and Interpretation**Credit Hours: 2**

Discussion of environmental issues, practical experiences in teaching environmental concepts, and awareness of environmental resource materials for the formal and nonformal educational setting. May be taught concurrently with BIO 561. Cannot receive credit for both BIO 561 and BIO 661

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Demand

BIO 662 - Limnology**Credit Hours: 4**

Physical, chemical, and biological characteristics of lakes and reservoirs. Laboratory includes mapping, lake models, water chemistry, and surveys of diversity and abundance. Two all-day Saturday labs required. May be taught concurrently with BIO 562. Cannot receive credit for both BIO 562 and BIO 662.

Recommended Prerequisite: ecology course; and one year of college chemistry.

Lecture Contact Hours: 2 Lab Contact Hours: 4

Typically Offered: Fall

BIO 663 - Population Ecology

Credit Hours: 3

Discussion of factors controlling the distribution and abundance of populations. Quantitative description of population dynamics is emphasized. May be taught concurrently with BIO 563. Cannot receive credit for both BIO 563 and BIO 663.

Recommended Prerequisite: ecology course and pre-calculus mathematics course.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring Even

BIO 664 - Ozarks Natural Communities**Credit Hours: 2**

Examination of forests, glades, and aquatic habitats with focus on environmental issues in the Ozarks. Integration into formal and non-formal educational settings will be covered. May be taught at the Bull Shoals Field Station. May be taught concurrently with BIO 564. Cannot receive credit for both BIO 564 and BIO 664.

Recommended Prerequisite: BIO 367 and BIO 368.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Demand

BIO 665 - Marine Ecology**Credit Hours: 3**

A consideration of the relationship of marine organisms to their environment includes the effects of temperature, salinity, light, nutrient concentration, currents, and food on the abundance and distribution of marine organisms. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. Concurrent enrollment in BIO 566 required. May be taught concurrently with BIO 565. Cannot receive credit for both BIO 565 and BIO 665.

Prerequisite: 16 hours of biology and permission of advisor or department head.

Recommended Prerequisite: General Biology I and II.

Lecture Contact Hours: 3

Typically Offered: Summer

BIO 666 - Marine Ecology Lab**Credit Hours: 2**

Laboratory portion of BIO 665. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 566. Cannot receive credit for both BIO 566 and BIO 666.

Prerequisite: concurrent enrollment in BIO 665.

Corequisite: BIO 665

Lab Contact Hours: 4

Typically Offered: Summer

BIO 668 - Physiological Ecology

Credit Hours: 4

Physiological adaptations of plants and animals to environmentally stressful conditions and to ecological/evolutionary pressures. May be taught concurrently with BIO 567. Cannot receive credit for both BIO 567 and BIO 668.

Recommended Prerequisite: ecology course; and general physiology or plant physiology or human physiology course.

Lecture Contact Hours: 4

Typically Offered: Spring Odd

BIO 671 - Comparative Animal Physiology

Credit Hours: 4

Organ/system function in a wide range of invertebrate and vertebrate animals. May be taught concurrently with BIO 571. Cannot receive credit for both BIO 571 and BIO 671.

Recommended Prerequisite: general physiology or human physiology course.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Spring Odd

BIO 673 - Ornithology

Credit Hours: 3

Taxonomy, distribution, life histories and ecology of birds; emphasis on Missouri forms. Early morning field trips required. May be taught concurrently with BIO 573. Cannot receive credit for both BIO 573 and BIO 673.

Prerequisite: 12 hours of biology.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

BIO 674 - Aquatic Entomology

Credit Hours: 2

Aquatic insects, ecology and taxonomy with emphasis on field applications. One weekend field trip required. May be taught concurrently with BIO 574. Cannot receive credit for both BIO 574 and BIO 674.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Demand

BIO 675 - Ichthyology

Credit Hours: 3

Taxonomy, distribution, life histories and ecology of fish with emphasis on Missouri forms. May be taught concurrently with BIO 575. Cannot receive credit for both BIO 575 and BIO 675.

Prerequisite: 12 hours in biology.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

BIO 676 - Herpetology

Credit Hours: 3

Taxonomy, distribution, life histories and ecology of amphibians and reptiles with emphasis on Missouri forms. One weekend field trip required. May be taught concurrently with BIO 576. Cannot receive credit for both BIO 576 and BIO 676.

Prerequisite: 12 hours in biology.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

BIO 677 - Mammalogy

Credit Hours: 3

Taxonomy, distribution, life histories and ecology of mammals with emphasis on Missouri forms. One weekend field trip required. May be taught concurrently with BIO 577. Cannot receive credit for both BIO 577 and BIO 677.

Prerequisite: 12 hours in biology.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

BIO 678 - Behavioral Ecology

Credit Hours: 4

Fundamental principles of animal behavior with an emphasis on the study of the ecological and evolutionary processes that influence behavior. May be taught concurrently with BIO 578. Cannot receive credit for both BIO 578 and BIO 678.

Recommended Prerequisite: ecology course and statistics course.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Spring

BIO 679 - Conservation Biology

Credit Hours: 3

An in-depth examination of the science of conservation from a biological perspective, with an examination of ethical and legal aspects of conservation. May be taught concurrently with BIO 579. Cannot receive credit for both BIO 579 and BIO 679.

Recommended Prerequisite: genetics course and ecology course.

Lecture Contact Hours: 3

Typically Offered: Demand

BIO 680 - Vertebrate Anatomy and Evolution**Credit Hours:** 2

Vertebrate gross anatomy. Phylogeny and present status of organ systems in vertebrates. May be taught concurrently with BIO 380. Cannot receive credit for both BIO 380 and BIO 680.

Lecture Contact Hours: 2

Typically Offered: Fall

BIO 685 - Marine Conservation**Credit Hours:** 3

An overview of current issues related to the conservation and management of marine organisms, with emphasis on marine species and habitats exploited or endangered by human actions. May be taught concurrently with BIO 685. Cannot receive credit for both BIO 485 and BIO 685.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

BIO 686 - Fish Ecology**Credit Hours:** 3

The biology of fishes in relation to environmental conditions at the individual, population, and community levels. May be taught concurrently with BIO 584. Cannot receive credit for both BIO 584 and BIO 686.

Recommended Prerequisite: ecology course and ichthyology course.

Lecture Contact Hours: 3

Typically Offered: Demand

BIO 687 - Marine Invertebrate Zoology**Credit Hours:** 3

A concentrated study of the free-living marine and estuarine invertebrates of Mississippi Sound and adjacent bayous, salt

marshes, barrier islands, and the nearshore continental shelf of the northeastern Gulf of Mexico. Course emphasizes structure, classification, phylogenetic relationships, larval development, functional processes, and ecological aspects of Gulf of Mexico invertebrates and their natural assemblages. Advanced undergraduates and graduate students may be asked to conduct independent, short-term research projects during the course. Must be taken at the Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with BIO 587. Cannot receive credit for both BIO 587 and BIO 687.

Prerequisite: 16 hours in biology; and concurrent enrollment in BIO 688.

Corequisite: BIO688

Lecture Contact Hours: 3

Typically Offered: Summer

BIO 688 - Marine Invertebrate Zoology Lab

Credit Hours: 3

Laboratory portion of BIO 687. May be taught concurrently with BIO 588. Cannot receive credit for both BIO 588 and BIO 688.

Prerequisite: concurrent enrollment in BIO 687.

Corequisite: BIO 687

Lab Contact Hours: 6

Typically Offered: Summer

BIO 689 - Game Management

Credit Hours: 3

Management of game birds and mammals for recreational utilization. May be taught concurrently with BIO 589. Cannot receive credit for both BIO 589 and BIO 689.

Recommended Prerequisite: wildlife management course.

Lecture Contact Hours: 3

Typically Offered: Demand

BIO 697 - Topics in Biology

Credit Hours: 1-4

A variable content course to provide for the offering of selected topics in biology on a one time or first time basis. May be repeated for credit when topic varies. May be taught concurrently with BIO 597. Cannot receive credit for both BIO 597 and BIO 697.

Prerequisite: permission of instructor.

Typically Offered: Demand

BIO 710 - Topics in Microbial Physiology

Credit Hours: 3

Topics of interest in microbial physiology will be discussed. These may include, cell structure, energy production, fermentation, nitrogen metabolism, protein and nucleic acid syntheses, regulation of gene expression, and dynamics of cell growth. Lecture will supplement discussion sessions.

Lecture Contact Hours: 3

Typically Offered: Demand

BIO 712 - Advanced Immunology

Credit Hours: 2

Cellular aspects of the immune system.

Recommended Prerequisite: immunology course.

Lecture Contact Hours: 2

Typically Offered: Spring

BIO 725 - Advanced Limnology

Credit Hours: 2

Advanced concepts of biological, chemical and physical limnology. Recent symposia, reviews, and primary literature are discussed. Prerequisite: BIO 562. Advanced concepts of biological, chemical and physical limnology. Recent symposia, reviews, and primary literature are discussed.

Recommended Prerequisite: limnology course.

Lecture Contact Hours: 2

Typically Offered: Demand

BIO 726 - Advanced Limnology Methods

Credit Hours: 2

Research and practical application of modern limnological methods are taught.

Recommended Prerequisite: limnology course

Lab Contact Hours: 4

Typically Offered: Demand

BIO 728 - Recent Advances in Biology

Credit Hours: 1

Selected topics in biology to be discussed using original literature as the focal point. Variable content course. May be repeated when topic varies.

Prerequisite: permission of instructor.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

BIO 730 - Advanced Topics in Biology

Credit Hours: 1-4

Individual study in biology; may include literature, field and/or laboratory work. May be repeated.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

BIO 734 - Advanced Plant Taxonomy

Credit Hours: 4

Philosophy and principles of modern taxonomic procedures.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Demand

BIO 755 - Advanced Developmental Biology

Credit Hours: 3

This course delves deeper into topics introduced in BIO 355 and BIO 655, and will explore other subjects not previously covered. Topics discussed may include, but are not limited to, fertilization (how do sperm and eggs mature, and how does fertilization occur?), organ size determination (what controls the size and correct proportions of organs during development), organ/embryo patterning (how does an embryo know which side will become the left and which will become the right?), organogenesis (how is a branching pattern created in developing blood vessels?), ecological developmental biology (how does climate change affect development of an organism?), and evolutionary developmental biology (how do cavefish develop without eyes, despite their eye bearing ancestors?).

Recommended Prerequisite: developmental biology course.

Lecture Contact Hours: 3

Typically Offered: Fall

BIO 760 - Topics in Teaching Biology

Credit Hours: 1-3

Biological concepts, information, practical experiences, and use of resource materials in the elementary and secondary classroom. Variable content course. May be repeated when topic varies.

Prerequisite: permission of instructor.

Typically Offered: Demand

BIO 767 - Advanced Vertebrate Zoology

Credit Hours: 3

Evolutionary relationships of living and extinct vertebrates; analysis of geographic distribution and adaptive radiation. Includes field/lab experiences to be arranged.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

BIO 790 - Degree Paper

Credit Hours: 2

Extensive paper on selected topics. Exclusively satisfies requirements for non-thesis option, which also requires one BIO 790 paper to be presented orally to the department. May be repeated to a maximum of four hours. Graded Pass/Not Pass only.

Prerequisite: permission of advisor.

Lecture Contact Hours: 2

Typically Offered: Demand

BIO 794 - Scientific Writing

Credit Hours: 2

Organization, content, and style in scientific writing. Includes discussion of literature searching, study design, proposal writing, figure preparation, revision, the publication process, and oral presentation. Recommended for research students in biology.

Lecture Contact Hours: 2 **Lab Contact Hours:** 1

Typically Offered: Fall

BIO 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (80 hours/credit hour) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

BIO 798 - Research

Credit Hours: 1-6

Supervised research in special biology areas. May be repeated, but no more than six hours may be counted towards the MS degree. Graded Pass/Not Pass only.

Prerequisite: permission of advisor.

Typically Offered: Demand

BIO 799 - Thesis**Credit Hours:** 1-6

Independent study connected with preparation of thesis. May be repeated, but no more than six hours may be counted towards the MS degree. Graded Pass/Not Pass only.

Prerequisite: permission of advisor.

Typically Offered: Demand

Biomedical Sciences**BMS 602 - Special Topics in Biomedical Sciences II****Credit Hours:** 1-4

Selected topics of an advanced nature which will vary from semester to semester. May be repeated to a maximum of eight hours provided topics are different. May be taught concurrently with BMS 500. Cannot receive credit for both BMS 500 and BMS 602.

Prerequisite: permission of department head.

Typically Offered: Demand

BMS 603 - Epigenetics and Human Health

Includes principles of epigenetic regulation of gene expression (e.g. chromatin, DNA modifications, non-coding RNA, and RNA editing). Discussion topics include regulation of these events, and molecular techniques that detect epigenetic marks. Furthermore, students will investigate recent literature to describe current understanding of relationships between epigenetic mechanisms, the environment (e.g. aging, diet, exercise, chemical exposure, malignancies), and organismal fitness. Identical with BIO 603. May be taught concurrently with BMS 503. Can only receive credit for one of the following: BIO 503, BIO 603, BMS 503, BMS 603.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 614 - Scanning Electron Microscopy**Credit Hours:** 2

An introduction to microsurface analysis using scanning electron microscopy and X-ray microanalysis. Theoretical considerations and laboratory procedures involve both techniques but the major emphasis will be on generation of secondary electron images. Some attention is devoted to backscattered electron imaging, X-ray mapping, stereo pair imaging, and related

image processing techniques. May be taught concurrently with BMS 514. Cannot receive credit for both BMS 514 and BMS 614.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Fall

BMS 620 - Medical Cell Biology

Credit Hours: 3

Focus on the molecular aspects of cell biology for students in the Nurse Anesthesia program. Content identical to the lecture part of BMS 622. Cannot receive credit for both BMS 620 and 622. May be taught concurrently with BMS 520. Cannot receive credit for BMS 520 and BMS 620.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BMS 622 - Molecular Cell Biology

Credit Hours: 4

Origins, structure and function of cells and basic life processes from a molecular perspective. Major topics focus on the energy, chemical, and information exchanges within and among cells and their environment. Cannot receive credit for both BMS 620 and 622. May be taught concurrently with BMS 521. Cannot receive credit for BMS 521 and BMS 622.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3 Lab Contact Hours: 3

Typically Offered: Fall, Spring

BMS 624 - Virology

Credit Hours: 3

The molecular biology and pathogenicity of animal viruses with an emphasis on human viral pathogens. May be taught concurrently with BMS 524. Cannot receive credit for BMS 524 and BMS 624.

Prerequisite: BMS 622.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 625 - Molecular Biology

Credit Hours: 4

In-depth examination of nucleic acid structure, function, regulation, repair, and mutagenesis; principles of genetic engineering. Laboratory provides experience in the techniques used to isolate, separate, quantitate, characterize, and modify nucleic acids. The course also includes an introduction to the GenBank and EMBL nucleic acid and protein sequence databases. May be taught concurrently with BMS 525. Cannot receive credit for BMS 525 and BMS 625.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Fall, Spring

BMS 628 - Molecular Mechanisms of Bacterial Pathogenesis

Credit Hours: 2

An in-depth study of the methods of genetic control and production of pathogenic factors employed by disease causing bacteria. The course will use both reference material and primary literature to illustrate the topics under discussion. May be taught concurrently with BMS 528. Cannot receive credit for both BMS 528 and BMS 628.

Prerequisite: BMS 622.

Lecture Contact Hours: 2

Typically Offered: Fall

BMS 629 - Molecular Genetics

Credit Hours: 3

Laboratory skills course that provides guided experience designing and implementing modern molecular techniques to answer research questions. Allows an in-depth exploration of principles at the core of molecular biology such as: quantification of gene expression (e.g. qRT-PCR, Northern blot, western blot, flow cytometry), genetic engineering (e.g. cloning, site-directed mutagenesis, genome manipulation), analyzing genetic material (e.g. genotyping, genetic screening, sequencing), and isolating molecules of interest (e.g. immuno-purification, RNA isolation, PCR). May be taught concurrently with BMS 529. Cannot receive credit for both BMS 529 and BMS 629.

Prerequisite: BMS 625 or concurrent enrollment.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Fall

BMS 631 - Cell Biology of Cancer

Credit Hours: 2

Discussion of the initiation, cellular and genetic events which lead to cancer as well as its prevention, treatment, and personal consequences. An extensive paper and presentation are required. May be taught concurrently with BMS 530. Cannot receive credit for both BMS 530 and BMS 631.

Prerequisite: BMS 622.

Lecture Contact Hours: 2

Typically Offered: Spring

BMS 635 - Signal Transduction

Credit Hours: 2

This course will examine the molecular mechanisms of various ligand/receptor interactions. The dynamics involved in ligand/receptor binding will be studied and examples of receptor-mediated signal transduction will be introduced. Signaling pathways within the cell will be discussed. Primary literature and reference materials will be utilized to illustrate specific examples under discourse. May be taught concurrently with BMS 535. Cannot receive credit for both BMS 535 and BMS 635.

Prerequisite: BMS 622.

Lecture Contact Hours: 2

Typically Offered: Spring

BMS 640 - Biotechnology

Credit Hours: 2

The applications of the methodologies of cell and molecular biology in the rapidly-evolving biotechnology and biopharmaceutical industries with an emphasis on the major sectors involving human therapeutics, human diagnostics, and genomics. Cell and molecular biology technologies adapted to mass production techniques to produce the products of biotechnology are surveyed. Typical pathways of product development from original basic research, product inception, clinical trials, regulatory approval, and commercialization are covered. Students will examine the current programs of the research and development of selected biotechnology and big pharmaco corporations. May be taught concurrently with BMS 540. Cannot receive credit for both BMS 540 and BMS 640.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Spring

BMS 641 - Physiology of the Human Cell

Credit Hours: 3

The molecular, chemical, membrane and cellular basis of metabolic homeostatic processes in human cells, cytoplasmic compartments and primary organ systems. May be taught concurrently with BMS 442. Cannot receive credit for both BMS 442 and BMS 641.

Prerequisite: admission to the Biomedical Sciences graduate program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

BMS 642 - Physiology of Human Organ Systems

Credit Hours: 3

Course will continue the investigation of human physiology by organ system including the cardiovascular and respiratory systems as well as mechanisms of body defense. May be taught concurrently with BMS 542. Cannot receive credit for both BMS 542 and BMS 642.

Prerequisite: C or better in BMS 641.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 645 - Clinical Gross Anatomy

Credit Hours: 5

The course offers in-depth coverage of basic, applied and clinical aspects of gross anatomy. An advanced musculoskeletal anatomy course that emphasizes the study of functional relationships between musculature, nervous tissue, vascular and skeletal components for the extremities and axial skeleton: Cadaver dissection laboratory experience is used to enhance understanding of three dimensional anatomical relationships for specific body regions. Students observe, discuss, teach, learn and dissect all body systems in detail. This course incorporate traditional didactic lectures, discussions, laboratory dissection, students teaching students (peer-teaching) in laboratory sessions and assignments that rely on critical thinking. Identical with OTE 645. Cannot receive credit for both BMS 645 and OTE 645.

Prerequisite: admission to Master of Occupational Therapy program.

Lecture Contact Hours: 3 **Lab Contact Hours:** 6

Typically Offered: Summer

BMS 658 - Recombinant DNA and Protein Techniques

Credit Hours: 3

A laboratory intensive course designed to extend the biochemical and molecular biology principles and current techniques used in gene cloning, transformation of eukaryotic cells, gene expression through reverse transcriptase PCR and western blot analysis, immunoprecipitation, DNA sequencing, and mass spectrometry. May be taught concurrently with BMS 558. Cannot receive credit for both BMS 558 and BMS 658.

Prerequisite: C grade or better in BMS 521 or BMS 622.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Fall, Spring

BMS 660 - Medical Physiology Laboratory

Credit Hours: 1

Experience using laboratory techniques and case studies to enhance knowledge of human physiology. May be taught concurrently with BMS 562. Cannot receive credit for both BMS 562 and BMS 660.

Prerequisite: C grade or better in BMS 641; and concurrent enrollment in BMS 642.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

BMS 661 - Medical and Pathologic Physiology

Credit Hours: 3

A study of physiological dysfunction in human disease with consideration of disease etiology, diagnosis, clinical interpretation, and treatment. Designed for students and professionals in the health sciences. May be taught concurrently with BMS 561. Cannot receive credit for both BMS 561 and BMS 661.

Prerequisite: admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BMS 663 - Human Work Physiology

Credit Hours: 3

Review of cellular metabolism, energy transfer, and oxygen transport during work; excitation-contraction coupling in skeletal muscle; physiological mechanisms of fatigue; neuroendocrine regulation of metabolism and other responses to work; environmental factors in work performance. Emphasis on molecular and cellular mechanisms and contemporary research. May be taught concurrently with BMS 563. Cannot receive credit for both BMS 563 and BMS 663.

Prerequisite: admission to the Biomedical Sciences graduate program or permission of the instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 664 - Human Reproductive Physiology

Credit Hours: 2

A detailed examination of the physiological, cellular and molecular aspects of human reproduction with particular emphasis on the endocrine aspects of reproduction. May be taught concurrently with BMS 564. Cannot receive credit for both BMS 564 and BMS 664.

Lecture Contact Hours: 2

Typically Offered: Demand

BMS 665 - Human Cardiopulmonary Physiology

Credit Hours: 3

A cellular and molecular study of human cardiovascular and respiratory physiology and related human diseases. Emphasis will be on the molecular mechanisms for normal and abnormal functions of the blood, the blood vessels, the heart, the respiratory tract, and the lung. Current research topics and results will be introduced and discussed. May be taught concurrently with BMS 565. Cannot receive credit for both BMS 565 and BMS 665.

Prerequisite: admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BMS 667 - Physiology of Exercise Metabolism

Credit Hours: 4

Introduction to the study of human metabolic and work physiology. Digestion, absorption, and metabolism of biologically important nutrients as they affect cellular energy transfer; mechanisms of energy transfer in cells during various forms of work; oxygen transport and utilization at the cellular and system level; factors modifying the efficiency of human work performance. May be taught concurrently with BMS 567. Cannot receive credit for both BMS 567 and BMS 667.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

BMS 669 - Neurobiology

Credit Hours: 3

Study of the human nervous system includes neuroanatomy and principles of function. This course will focus on fundamental organization and function of human nervous system and associated neurological diseases. Core concepts and mechanisms underlying the central and peripheral nervous system controlling movement, sensation, and cognition will be covered. May be taught concurrently with BMS 569. Cannot receive credit for both BMS 569 and BMS 669.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 670 - Principles of Pharmacology

Credit Hours: 3

Overview of the aspects of pharmacology including: pharmacodynamics, pharmacokinetics, pharmacogenomics, drug selectivity, toxicity, metabolism, drug development, and drug regulation. Additionally, an overview of the major classification of drugs and their mechanisms of action will be presented. May be taught concurrently with BMS 570. Cannot receive credit for both BMS 570 and BMS 670.

Prerequisite: permission of instructor.

Recommended Prerequisite: BMS 622.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 671 - Gastrointestinal Physiology

Credit Hours: 2

Structure and function of the gastrointestinal system including pathophysiology of common clinical conditions. May be taught concurrently with BMS 571. Cannot receive credit for both BMS 571 and BMS 671.

Prerequisite: C grade or better in BMS 642 or concurrent enrollment or equivalent.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

BMS 672 - Human Renal Physiology

Credit Hours: 2

An overview of the structure and functions of the human kidneys, associated organs, and diseases. The course emphasizes

important cellular and molecular mechanisms regulating body fluids, body electrolytes, renal circulation, and renal functions under physiological and pathophysiological conditions. May be taught concurrently with BMS 572. Cannot receive credit for both BMS 572 and BMS 672.

Prerequisite: C grade or better in BMS 308 or BMS 442; or admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 2

Typically Offered: Fall, Summer

BMS 673 - Endocrine Physiology

Credit Hours: 2

A detailed examination of the physiological, cellular and molecular aspects of the human endocrine system. May be taught concurrently with BMS 573. Cannot receive credit for both BMS 573 and BMS 673.

Prerequisite: admission to the Biomedical Sciences graduate program or permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Demand

BMS 675 - Human Cardiovascular Physiology

Credit Hours: 2

A cellular and molecular study of human cardiovascular regulation and related diseases. Emphasis will be on the molecular mechanisms for normal and abnormal functions of the blood, the blood vessels, and the heart. Current research topics and results will be introduced and discussed. May be taught concurrently with BMS 575. Cannot receive credit for both BMS 575 and BMS 675

Prerequisite: C or better in BMS 642 or concurrent enrollment or equivalent.

Lecture Contact Hours: 2

Typically Offered: Demand

BMS 676 - Human Respiratory Physiology

Credit Hours: 2

A cellular and molecular study of human respiratory system regulation and related diseases. Emphasis will be on the molecular mechanisms for normal and abnormal functions of the lungs, red blood cells, and gas diffusion. Current research topics and results will be introduced and discussed. May be taught concurrently with BMS 576. Cannot receive credit for both BMS 576 and BMS 676.

Prerequisite: C or better in BMS 642 or concurrent enrollment or equivalent.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

BMS 682 - Embryology

Credit Hours: 3

A study of prenatal human development with emphasis on the cellular and subcellular mechanisms correlating normal development with common congenital malformations. Topics include cell division, gametogenesis, fertilization, and development of the embryo from zygote to the differentiation of the neural tube. The development of specific human organ systems including, skeletomuscular, cardiovascular, respiratory, pharyngeal, craniofacial, digestive, urinary, genital, and endocrine systems will be covered throughout prenatal development. Prepares students in pre-professional medical, dental, and allied health curricula, as well as any student requiring a background in embryology. May be taught concurrently with BMS 582. Cannot receive credit for both BMS 582 and BMS 682.

Recommended Prerequisite: human anatomy.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 688 - Histology

Credit Hours: 4

Microscopic structure of cells, tissues, and organ systems, with special emphasis on human tissues. Extensive laboratory experience with interpretation of structures in stained tissues mounted on microslides. Recommended for students in medical, dental, optometric, and other preprofessional curricula, cell and molecular biology, and zoology. May be taught concurrently with BMS 585. Cannot receive credit for both BMS 585 and BMS 688.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Fall

BMS 693 - Bioinformatics and Biomedical Resources

Credit Hours: 2

Use of biomedical source materials and methods of data access, selection, organization, and evaluation. May be taught concurrently with BMS 593. Cannot receive credit for both BMS 593 and BMS 693.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

BMS 700 - Introduction to Graduate Studies in the Biomedical Sciences

Credit Hours: 3

Study of the researcher role, the research process, and research ethics relating to the biomedical sciences.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BMS 701 - Research in the Biomedical Sciences

Credit Hours: 1

Focus on research skills, scientific writing, and professional development. May be repeated to a maximum of four hours.

Prerequisite: admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

BMS 707 - Medical Human Anatomy

Credit Hours: 6

This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Students make oral presentations and use the library and other sources of information (such as the internet and our Computer Laboratory) to learn and teach applied gross anatomy.

Prerequisite: admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 3 **Lab Contact Hours:** 10

Typically Offered: Fall

BMS 717 - Medical Human Anatomy and Radiology

Credit Hours: 6

Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, x-ray, CAT scan and MRI, and ultrasound imaging. Identical with PAS 717. Cannot receive credit for both BMS 717 and PAS 717.

Prerequisite: admission to the Physician Assistant Studies program.

Lecture Contact Hours: 3 **Lab Contact Hours:** 11

Typically Offered: Spring

BMS 726 - Advanced Topics in Cell and Molecular Biology

Credit Hours: 1-4

Focused or detailed consideration of advanced or timely topics in cell and molecular biology. May involve group discussion from another institution or represent individual study. Credit for BMS 726 may be given for electronic and distance learning courses available via the internet with the approval of the cell and molecular biology faculty who will determine the credit hours and topic title. Variable content course. May be repeated to a maximum of six hours provided topics are different.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

BMS 727 - Human Gross Anatomy

Credit Hours: 4

This course offers in-depth coverage of basic, applied, and clinical aspects of gross anatomy. The delivery format incorporates online asynchronous lectures, virtual discussion boards, online asynchronous and synchronous human cadaver laboratory experiences to examine regional and systemic human gross anatomy. Functional anatomical relationships are correlated with diagnostic imaging and medical-based pathophysiology to emphasize critical problem-solving skills.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Fall

BMS 728 - Human Neurophysiology and Anatomy**Credit Hours: 3**

This course is designed for a study of human neuroanatomy and neurobiology with emphasis on understandings of pain sensation and perception. Lecture is focused on fundamental structure and function of central nerve system and peripheral nerve system with respect to pain followed by understandings of its regulatory mechanisms and pathological pain. The lecture portion incorporated non-traditional online lectures and discussion in classroom. Laboratory offers hands-on learning opportunities with emphasis on pain-related Gross Anatomy and pain management. Students observe, discuss, teach, and learn about the human nervous system in a cooperative learning environment.

Prerequisite: admission to the Doctor of Nurse Anesthesia Practice program.

Lecture Contact Hours: 1 Lab Contact Hours: 4

Typically Offered: Summer

BMS 730 - Current Literature Topics**Credit Hours: 1**

A weekly forum of faculty and graduate students to discuss reports in the current literature from cell, molecular, and developmental biology. Participants are assigned to report on developments in their specialty or area of interest and provide background for understanding the basis and significance of the report to others in the group. May be repeated. Required each regular semester for full time students.

Prerequisite: admission to the Biomedical Sciences graduate program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

BMS 732 - Clinical Preventive Medicine**Credit Hours: 3**

A review of current scientific evidence regarding effective screening tests and interventions to improve health status.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 752 - Medical Physiology

Credit Hours: 3

The study of biological function of the human organism. Emphasis will be placed on mechanisms and regulation using examples focusing on the field of medicine. Topics covered will include general cell function, neural, endocrine, cardiovascular, respiratory, gastrointestinal and renal physiology and regulation of acid-base balance. The course stresses the interrelated functions of the body systems in homeostasis and builds on this knowledge to introduce how disease alters the homeostatic controls.

Prerequisite: admission to Physician Assistant Studies program or Doctor of Physical Therapy program or Biomedical Sciences graduate program.

Lecture Contact Hours: 3

Typically Offered: Spring

BMS 784 - Developmental Genetics

Credit Hours: 2

A study of developmental gene families, their expressions as related to the normal and abnormal development of form and structure, and their intrinsic and extrinsic regulation in various animal model systems, including humans. Specific gene-programmed and gene regulated mechanisms such as those regulating pattern formation, triggering cell differentiation, initiating regeneration (as it applies to specific tissues and organs), controlling apoptosis, and determining rates of cellular and organismal aging are included.

Prerequisite: BMS 625.

Lecture Contact Hours: 2

Typically Offered: Demand

BMS 797 - Non-Thesis Project

Credit Hours: 2

In-depth study in an area of interest, culminating in a presentation of an extensive scholarly paper. Graded Pass/Not Pass Only.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

BMS 798 - Research

Credit Hours: 1-6

Application of the research process in the supervised study of a selected problem. May be repeated to a maximum of six hours. Graded Pass/Not Pass only.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

BMS 799 - Thesis

Credit Hours: 1-6

Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated to a maximum of six hours. Graded Pass/Not Pass only.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

Business

BUS 601 - Foundations and Applications of Business Principles

Credit Hours: 3

An exploration of business principles and their application. Designed for graduate students who do not have an undergraduate degree in business. This course may not be counted in the hours required for a College of Business undergraduate or graduate degree.

Prerequisite: permission of the director of the Master of Professional Studies program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

BUS 610 - E-Business and Online Entrepreneurship

Credit Hours: 3

A study of e-business and online entrepreneurship from an applied, best practices point of view. Classroom visits by online entrepreneurs provide unique, real-world insights into the advantages, disadvantages, and challenges of doing business over the internet. May be taught concurrently with BUS 510. Cannot receive credit for both BUS 510 and BUS 610.

Lecture Contact Hours: 3

Typically Offered: Summer

BUS 650 - Negotiation, Mediation, and Arbitration in Business

Credit Hours: 3

A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with LAW 650. May be taught concurrently with BUS 550. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650.

Lecture Contact Hours: 3

Typically Offered: Demand

BUS 790 - Seminar in Contemporary Business Issues

Credit Hours: 3

A variable topics course focusing on contemporary issues in business. The course will include a significant writing/research project and presentation.

Prerequisite: 15 graduate hours and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

BUS 792 - International Education Abroad in Business**Credit Hours:** 3

Offered in conjunction with an international Education Abroad program, this course consists of three parts; 1. Background research and discussion on selected companies and institutions in one or more international locations to be visited. This will address the economic, political, global, historical, social, ethical and cultural environment in which they function. 2. A visit, typically of seven days or longer, to the international destination(s) to explore the culture and visit companies, institutions, and cultural icons. 3. A final written project and discussion of the experience. The course involves research, written and oral reporting, and presentations with graduate level proficiency. Group interactions based upon trust, respect, and integrity are required.

Prerequisite: acceptance into the related Education Abroad program; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

BUS 795 - Domestic Field Experience in Business**Credit Hours:** 3

Offered in conjunction with a domestic field experience program through the Office of Education Abroad, this course consists of three parts; 1. Background research and discussion on selected companies and institutions in one or more major U.S. financial center(s) (e.g. New York City) to be visited. This will address the economic, political, global, historical, social, ethical and cultural environment in which they function. 2. A visit, typically of seven days or longer, to the international destination(s) to explore the culture and visit companies, institutions, and cultural icons. 3. A final written project and discussion of the experience. The course involves research, written and oral reporting, and presentations with graduate level proficiency. Group interactions based upon trust, respect, and integrity are required.

Prerequisite: acceptance into the related field experience program; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

Career and Technical Education**CTE 600 - Issues in Career and Technical Education****Credit Hours:** 1-3

Advanced inquiry into specialized areas of study in career and technical education such as: Blended Families, Historic Building Preservation, Textile Conservation, Preservation Techniques, Advanced Culinary Techniques, and International Trends in

Hospitality. Variable content course. May be repeated to a maximum of six hours when topics change. May be taught concurrently with CTE 500. Cannot receive credit for both CTE 500 and CTE 600.

Typically Offered: Demand

CTE 602 - Study Tour

Credit Hours: 1-3

Study of and/or visits to mills, factories, stores, museums, hospitals, laboratories, design studios and/or trade markets. May be taught concurrently with CTE 502. Cannot receive credit for both CTE 502 and CTE 602.

Typically Offered: Demand

CTE 607 - Student Organizations in Career and Technical Education

Credit Hours: 1

Methods of organizing student groups in career and technical education programs, techniques of working with students in individual and group projects; leadership training. May be taught concurrently with CTE 507. Cannot receive credit for both CTE 507 and CTE 607.

Prerequisite: concurrent enrollment in CTE 612.

Corequisite: CTE 612

Lecture Contact Hours: 1

Typically Offered: Fall

CTE 612 - Teaching Career and Technical Education

Credit Hours: 3

An overview of the philosophy and history of career and technical education; includes curriculum building with emphasis on critical thinking and reflective decision-making, problem-based learning, and the development of authentic assessments. Includes the planning of lessons, units, and development of teaching materials in the family and consumer sciences discipline and practice implementation of such lessons. A C grade or better is required in this course. May be taught concurrently with CTE 512. May be receive credit for both CTE 512 and CTE 612.

Prerequisite: concurrent enrollment in CTE 607.

Corequisite: CTE 607

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

CTE 615 - Organization of Career and Technical Education Programs

Credit Hours: 3

Investigation of the organization and administration of career and technical programs; identification of types of programs; program planning, program evaluation and career counseling with emphasis on critical thinking and reflective decision-making. May be taught concurrently with CTE 515. Cannot receive credit for both CTE 515 and CTE 615.

Prerequisite: CTE 607 and CTE 612.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

CTE 701 - Supervision of Student Teachers in Career and Technical Education

Credit Hours: 3

Experiences in creating an environment that will encourage career and technical education student teachers to realize their potentials and gain competence in teaching.

Prerequisite: teaching experience in career and technical education; and permission.

Lecture Contact Hours: 3

Typically Offered: Demand

CTE 715 - Child and Family Development Instruction in the Middle and High School

Credit Hours: 3

Current issues and approaches in teaching child and family development at the middle and high school levels. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning and teaching.

Lecture Contact Hours: 3

Typically Offered: Spring

CTE 720 - Advanced Curriculum Development for Career and Technical Education Programs

Credit Hours: 3

Analysis of programs, methods, materials, and activities appropriate for career and technical education programs. Emphasis will be on developing and/or selecting strategies for a variety of programs such as middle school, high school, ProStart, HTMP, Early Childhood.

Lecture Contact Hours: 3

Typically Offered: Fall

CTE 725 - Career and Technical Education Leadership

Credit Hours: 3

Advanced inquiry into career and technical education as a teacher leader. Emphasis will be on developing and/or selecting strategies for a variety of programs such as FCCLA, SkillsUSA, ACTE.

Lecture Contact Hours: 3

Typically Offered: Fall

CTE 795 - Advanced Technical Practice

Credit Hours: 3

Work in CAD, EDI, Child Life, mental health, hospitality, clinical hospitals, schools, manufacturing, retailing, and/or other settings. Ninety clock hours required.

Prerequisite: permission.

Typically Offered: Demand

CTE 796 - Practicum

Credit Hours: 4

The assumption of responsibilities at an approved practicum site under the direction of a professor and practicum site supervisor.

Prerequisite: permission.

Lab Contact Hours: 8

Typically Offered: Demand

Child and Family Development

CFD 600 - Issues in Child and Family Development

Credit Hours: 1-3

Advanced inquiry into specialized areas of study in Child and Family Development. Variable content course. May be repeated to a maximum of six hours when topics change. May be taught concurrently with CFD 500. Cannot receive credit for both CFD 500 and CFD 600.

Prerequisite: permission.

Typically Offered: Demand

CFD 610 - Child Life Theory and Practice

Credit Hours: 3

This course will cover advanced topics related to the child life profession, including: stress and coping theory, psychological preparation for medical experiences, ethical issues related to healthcare delivery, non-pharmacological pain management, interdisciplinary team communication and advocacy, supervision of students, and child life program administration. May be taught concurrently with CFD 510. Cannot receive credit for both CFD 510 and CFD 610.

Prerequisite: admission into the CFD major-Child Life Option and completion of or concurrent enrollment in CFD 354 or admission into the Child Life Studies Graduate Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 632 - Family Advocacy

Credit Hours: 3

A study of the advocacy process in both the public and private sectors for directing change to benefit families and children. The course involves field trips to locations where decisions are being made that impact families and children. May be taught concurrently with CFD 532. Cannot receive credit for both CFD 532 and CFD 632.

Lecture Contact Hours: 3

Typically Offered: Demand

CFD 633 - Principles of Family Life Education**Credit Hours:** 4

A study of the philosophical and methodological considerations in facilitating family life education programs. Field experiences are a part of this course. May be taught concurrently with CFD 533. Cannot receive credit for both CFD 533 and CFD 633.

Lecture Contact Hours: 4

Typically Offered: Demand

CFD 657 - Growth and Development: Middle Childhood to Adolescence**Credit Hours:** 3

Overview of current research on development, middle childhood through adolescence (8-18), including physical, cognitive, social and emotional development. The roles of culture and biology in development, including families and a variety of social settings such as child care, schools, neighborhoods, and communities. May be taught concurrently with CFD 557. Cannot receive credit for both CFD 557 and CFD 657.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 660 - Family Engagement**Credit Hours:** 3

A study of family engagement programs including family education, volunteerism, leadership development, and advocacy. Students are involved in practicums working with families in a variety of community settings. Students must obtain a Missouri Volunteer and Employee Criminal History Service (MOVECHS) FBI fingerprinting background check. May be taught concurrently with CFD 560. Cannot receive credit for both CFD 560 and CFD 660.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 662 - Prevention of Child Abuse and Neglect**Credit Hours:** 3

The primary and secondary prevention of physical, emotional, and sexual abuse and neglect of children. Designed for

professionals who work with children and families and are required by law to report suspected incidences of child abuse and neglect. May be taught concurrently with CFD 562. Cannot receive credit for both CFD 562 and CFD 662.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 663 - Administration of Programs for Children and Families

Credit Hours: 3

Types, purposes, and administration of programs for children, youth, and families. Development of leadership and management skills. Includes an overview of office policy and procedure, staff and volunteer management, public relations, budgeting, and quality assurance. May be taught concurrently with CFD 563. Cannot receive credit for both CFD 563 and CFD 663.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

CFD 680 - Introduction to Research in Child and Family Development

Credit Hours: 3

00 or admission into accelerated graduate program or graduate student status. Provides an introduction to empirical research and a variety of research approaches common to the social sciences. Relevant terms and statistical concepts will be presented. Research methods and experimental designs, including locating and analyzing research articles from the professional literature will be introduced. May be taught concurrently with CFD 580. Cannot receive credit for both CFD 580 and CFD 680.

Prerequisite: 60 hours with minimum cumulative GPA (MSU and combined) of 3.00 or admission into accelerated graduate program or graduate student status.

Lecture Contact Hours: 3

Typically Offered: Spring

CFD 701 - Orientation to Early Childhood and Family Development

Credit Hours: 1

Orientation to the program and examination of seminal reading in the field.

Prerequisite: admission to the Early Childhood and Family Development graduate program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CFD 702 - Community Engagement

Credit Hours: 3

Analysis of service-learning/community engagement. The main tenets of community engagement/service-learning are analyzed, the community need, the academic enhancement, and reflection. The roles of all involved in community engagement/service-learning, the teachers, the students, and the community partners are studied. Ethical, moral, and civic implications of community

engagement/service-learning are also explored.

Lecture Contact Hours: 3

Typically Offered: Demand

CFD 705 - Growth and Development: Infancy through Early Childhood

Credit Hours: 3

Overview of current research on children's development, prenatal through age 8 years, including physical, cognitive, social and emotional development. The roles of culture and biology in development, including families and a variety of social settings such as child care, schools, neighborhoods, and communities.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 750 - Advanced Human Development Studies

Credit Hours: 3

Analysis of theories and trends in human development.

Lecture Contact Hours: 3

Typically Offered: Fall

CFD 761 - Advanced Family Studies

Credit Hours: 3

Provides students with an understanding of theories used in the study of families; awareness of current demographics and trends of today's families; examines characteristics of various family structures and social influences impacting family functioning.

Lecture Contact Hours: 3

Typically Offered: Demand

CFD 765 - Research Methodology in Early Education, Child Development, and Family Studies

Credit Hours: 3

Overview of research methodology in early childhood education, child development, and family studies. This course develops competencies in conducting literature reviews, comprehending research and interpreting results, conducting research investigations to advance information in a respective knowledge base, and synthesizing research and theory to apply in practice with children and families.

Prerequisite: ECE 725; and admission to the Early Childhood and Family Development graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CFD 775 - Parent and Child Relations

Credit Hours: 3

This course examines relevant theories and current research in parent-child relationships across the life span.

Lecture Contact Hours: 3

Typically Offered: Demand

CFD 776 - Advanced Studies in Infant Development

Credit Hours: 3

Current research on infant development, prenatal through two years of age. The roles of families and culture in early development. Applications of research findings to practice in infant and toddler care.

Lecture Contact Hours: 3

Typically Offered: Demand

Chemistry

CHM 602 - Instrumental Analysis

Credit Hours: 3

Applications of instrumental methods for the separation and analysis of materials; included are potentiometry, photometry and chromatography. May be taught concurrently with CHM 502. Cannot receive credit for both CHM 502 and CHM 602.

Prerequisite: C- grade or better in CHM 201 or CHM 342; and C- grade or better in CHM 302.

Recommended Prerequisite: PHY 124 or PHY 204.

Lecture Contact Hours: 3

Typically Offered: Fall

CHM 603 - Instrumental Analysis Laboratory

Credit Hours: 2

A laboratory course emphasizing applications of instrumental methods for the separation and analysis of materials. The course is designed to reflect and supplement the scope of CHM 602. Included are laboratory exercises in potentiometry, spectrophotometry, and chromatography. May be taught concurrently with CHM 503. Cannot receive credit for both CHM 503 and CHM 603.

Prerequisite: C- grade or better in CHM 302; and C- grade or better in CHM 502 or CHM 602 or concurrent enrollment.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Fall

CHM 604 - Fundamentals of Physical Chemistry

Credit Hours: 3

A one semester introduction to physical chemistry including the following topics: thermodynamics, chemical equilibrium, chemical kinetics, atomic and molecular structure, and spectroscopy. Cannot count toward the BS or MS degrees in Chemistry. May be taught concurrently with CHM 504. Cannot receive credit for both CHM 504 and CHM 604.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Spring

CHM 605 - Fundamentals of Physical Chemistry Laboratory

Credit Hours: 1

Experiments in physical chemistry employing principles and techniques reflecting materials presented in CHM 604. May be taught concurrently with CHM 505. Cannot receive credit for both CHM 505 and CHM 605.

Prerequisite: CHM 504 or CHM 604 or concurrent enrollment.

Lab Contact Hours: 3

Typically Offered: Spring

CHM 606 - Physical Chemistry I

Credit Hours: 3

First semester of a two-semester series covering aspects of quantum mechanics, classical and statistical thermodynamics, spectroscopy, kinetic theory of gases, and chemical kinetics. A C- grade or better is required in this course in order to take CHM 607. May be taught concurrently with CHM 506. Cannot receive credit for both CHM 506 and CHM 606.

Prerequisite: C- grade or better in CHM 170; and MTH 280 or MTH 288 or concurrent enrollment in MTH 280 or MTH 288.

Recommended Prerequisite: MTH 302; and PHY 124 or PHY 204.

Lecture Contact Hours: 3

Typically Offered: Fall

CHM 607 - Physical Chemistry II

Credit Hours: 3

Second semester of a two-semester series that builds upon and completes the topics introduced in CHM 606. May be taught concurrently with CHM 507. Cannot receive credit for both CHM 507 and CHM 607.

Prerequisite: C- grade or better in CHM 506 or CHM 606.

Lecture Contact Hours: 3

Typically Offered: Spring

CHM 608 - Physical Chemistry Laboratory I

Credit Hours: 2

Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 506 or CHM 606. May be taught concurrently with CHM 508. Cannot receive credit for both CHM 508 and CHM 608.

Prerequisite: C-grade or better in CHM 302; and C- grade or better in CHM 506 or CHM 606 or concurrent enrollment in CHM 506 or CHM 606.

Lab Contact Hours: 4

Typically Offered: Fall

CHM 609 - Physical Chemistry Laboratory II

Credit Hours: 2

Experiments in physical chemistry employing principles and techniques reflecting material presented in CHM 507 or CHM 607. May be taught concurrently with CHM 509. Cannot receive credit for both CHM 509 and CHM 609.

Prerequisite: CHM 507 or CHM 607 or concurrent enrollment; and CHM 508 or CHM 608.

Lab Contact Hours: 4

Typically Offered: Spring

CHM 614 - Polymer Chemistry

Credit Hours: 3

Morphology and chemical structure, polymer characterization, chemical structure and polymer properties, vinyl and non-vinyl polymers and mechanism of formation. Inorganic and partially inorganic polymers. May be taught concurrently with CHM 514. Cannot receive credit for both CHM 514 and CHM 614.

Prerequisite: C-grade or better in CHM 343; and CHM 505 or CHM 605 or CHM 506 or CHM 606.

Lecture Contact Hours: 3

Typically Offered: Spring Even

CHM 635 - Investigations in Chemistry for Teachers

Credit Hours: 1

Techniques in performing science investigation with application to secondary and middle school science. May be taught concurrently with CHM 435. Cannot receive credit for both CHM 435 and CHM 635.

Prerequisite: coursework sufficient to meet Missouri certification standards for secondary/middle school science teaching.

Lab Contact Hours: 2

Typically Offered: Spring Odd

CHM 642 - Advanced Organic Chemistry

Credit Hours: 3

Advanced discussion of structure, reaction mechanisms, stereochemistry and other topics of theoretical nature in organic chemistry. Polar, free-radical, pericyclic, and organometallic reactions beyond Organic Chemistry I and II will be discussed. May be taught concurrently with CHM 542. Cannot receive credit for both CHM 542 and CHM 642.

Prerequisite: C- grade or better in CHM 343.

Lecture Contact Hours: 3

Typically Offered: Fall

CHM 654 - Biochemistry I

Credit Hours: 3

Structure and function of biomolecules: proteins, enzymes, nucleic acids, carbohydrates, lipids and membranes. May be taught concurrently with CHM 554. Cannot receive credit for both CHM 554 and CHM 654.

Prerequisite: C- grade or better in CHM 343.

Recommended Prerequisite: BIO 121 or BMS 110 and 111.

Lecture Contact Hours: 3

Typically Offered: Fall, Demand

CHM 655 - Biochemistry Laboratory I

Credit Hours: 2

A series of multidimensional biochemical experiments designed to explore the biochemical literature, scientific report writing, and the biochemical techniques used to isolate and study biomolecules. May be taught concurrently with CHM 555. Cannot receive credit for both CHM 555 and CHM 655.

Prerequisite: CHM 554 or CHM 654 or concurrent enrollment.

Lab Contact Hours: 4

Typically Offered: Fall, Demand

CHM 656 - Biochemistry II

Credit Hours: 3

Bioenergetics--Metabolism of biomolecules including carbohydrates, lipids, amino acids and nucleotides. Photosynthesis. Nitrogen metabolism. Mechanisms of hormone action. May be taught concurrently with CHM 556. Cannot receive credit for both CHM 556 and CHM 656.

Prerequisite: C- grade or better in CHM 554 or CHM 654.

Lecture Contact Hours: 3

Typically Offered: Spring, Demand

CHM 657 - Biochemistry Laboratory II

Credit Hours: 2

Emphasis on modern techniques in the biochemistry laboratory; enzymology, protein purification and analysis; protein structure determination; isoelectric focusing; HPLC; trace techniques. May be taught concurrently with CHM 557. Cannot receive credit for both CHM 557 and CHM 657.

Prerequisite: CHM 555 or CHM 655; and CHM 556 or CHM 656 or concurrent enrollment.

Lab Contact Hours: 4

Typically Offered: Demand

CHM 660 - Chemistry of Environmental Systems: Water and Land

Credit Hours: 3

Chemistry of water and soil, water treatment, agricultural chemistry, and related topics. May be taught concurrently with CHM 460. Cannot receive credit for both CHM 460 and CHM 660.

Recommended Prerequisite: some advanced coursework in chemistry, geosciences, biology, or related fields.

Lecture Contact Hours: 3

Typically Offered: Fall

CHM 661 - Chemistry of Environmental Systems: Air and Energy

Credit Hours: 3

Atmospheric chemistry; pollution issues related to power production and transportation; energy sources and fuels. May be taught concurrently with CHM 461. Cannot receive credit for both CHM 461 and CHM 661.

Recommended Prerequisite: some advanced coursework in chemistry, geosciences, biology, or related fields.

Lecture Contact Hours: 3

Typically Offered: Spring

CHM 662 - Chemistry of Environmental Systems Laboratory

Credit Hours: 2

Techniques and procedures for environmental monitoring to test natural samples. Applications and limitations of wet chemical and instrumental methods such as atomic absorption, gas chromatography, and absorption spectrophotometry. May be taught concurrently with CHM 462. Cannot receive credit for both CHM 462 and CHM 662.

Prerequisite: CHM 660 or concurrent enrollment.

Lab Contact Hours: 4

Typically Offered: Spring

CHM 673 - Inorganic Chemistry

Credit Hours: 3

Atomic structure, chemical bonding, acid/base and reduction/oxidation concepts, reactivity of inorganic compounds, chemistry of main group elements, fundamentals of coordination theory. A C- grade or better is required in this course in order to take CHM 675. Cannot count toward the MS degree in Chemistry. May be taught concurrently with CHM 375. Cannot receive credit for both CHM 375 and CHM 673.

Prerequisite: C- grade or better in CHM 170.

Lecture Contact Hours: 3

Typically Offered: Fall

CHM 675 - Advanced Inorganic Chemistry

Credit Hours: 3

Theories and techniques of modern inorganic chemistry; correlation of theories with inorganic compounds. May be taught concurrently with CHM 575. Cannot receive credit for both CHM 575 and CHM 675.

Prerequisite: C- grade or better in CHM 375.

Lecture Contact Hours: 3

Typically Offered: Spring

CHM 696 - Chemistry Careers

Credit Hours: 1

Students will develop a familiarity with campus resources for finding employment and/or further educational training upon graduation. Emphasis will be given to writing scientific resumes and cover letters, familiarization with job-hunting resources and professional ethics, and researching chemistry careers, employers, and graduate schools. Outside speakers from chemistry-related employers and graduate programs will be invited, and interaction with the Career Center will be required. May be taught concurrently with CHM 498. Cannot receive credit for both CHM 498 and CHM 696.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CHM 697 - Special Topics in Chemistry

Credit Hours: 1-3

Selected topics of a theoretical or applied nature. May be repeated to a maximum of six hours with differing topics. May be taught concurrently with CHM 597. Cannot receive credit for both CHM 597 and CHM 697.

Prerequisite: 18 hours of chemistry.

Typically Offered: Demand

CHM 700 - Chemistry Colloquium

Credit Hours: 1

A series of oral presentations on new developments in chemistry. Presentations to be made by faculty members, students, and guest speakers from industry and academe. One of the requirements of this course is an oral presentation. May be repeated, but not more than two hours may be counted toward the 32-hour requirement for the MS in Chemistry degree.

Prerequisite: permission of department head.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CHM 701 - Chemistry Seminar**Credit Hours: 0**

Attendance at oral presentations on new developments in chemistry. Presentations may include those made by departmental faculty members, departmental graduate students, guest speakers from industry and academe and ACS tour speakers. All graduate students not enrolled in CHM 700 must be enrolled in CHM 701. Graded Pass/Not Pass only.

Typically Offered: Fall, Spring

CHM 702 - Advanced Topics in Analytical Chemistry**Credit Hours: 3**

An advanced topic in analytical chemistry will be addressed via faculty lectures and student projects. Examples of proposed topics include: electroanalytical methods, nanotechnology, forensic chemistry and data acquisition methods. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: CHM 602.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 710 - Special Topics in Chemical Education**Credit Hours: 1-3**

A single topic of current interest in the teaching of chemistry will be considered. May be repeated to a maximum of nine hours with differing topics.

Prerequisite: coursework sufficient to meet Missouri certification standards in chemistry for secondary teaching or permission.

Typically Offered: Demand

CHM 720 - Advanced Topics in Physical Chemistry**Credit Hours: 3**

An advanced topic in physical chemistry will be addressed via faculty lectures and student projects. Examples of proposed topics include: chemical kinetics, quantum chemistry, biophysical chemistry, and modern spectroscopic methods. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: CHM 607 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 735 - Investigation in Chemistry for Teachers

Credit Hours: 3

Techniques in performing science investigation with application to secondary and middle school science.

Prerequisite: CHM 635 or concurrent enrollment; coursework sufficient to meet Missouri certification standards for secondary/middle school science teaching.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

CHM 742 - Advanced Topics in Organic Chemistry

Credit Hours: 3

An in-depth study of an advanced topic in organic chemistry, entailing faculty lectures and student projects. Examples of proposed topics include: physical organic chemistry, medicinal chemistry, natural products, and spectroscopic characterization. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: CHM 642 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 752 - Advanced Topics in Biochemistry

Credit Hours: 3

An advanced topic in biochemistry will be addressed via faculty lectures and student projects. Examples of proposed topics include: carbohydrates, the cell surface, and physical biochemistry. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: CHM 656.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 763 - Advanced Topics in Environmental Chemistry

Credit Hours: 3

An advanced topic in environmental chemistry will be addressed via faculty lectures and student projects. Examples of proposed topics include: Sampling methods, standardized testing, nanoparticles in the environment, and the impact of discarded emerging materials. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 770 - Chemical Kinetics

Credit Hours: 3

Fundamental concepts of chemical kinetics and dynamics, from both macroscopic and molecular level perspectives. An emphasis will be placed on the interpretation of gas, liquid, surface and catalyst reaction kinetics and mechanisms.

Prerequisite: CHM 606.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 771 - Chemical Bonding

Credit Hours: 3

Quantum mechanics; atomic and molecular structure; computational procedures. Independent study project required.

Prerequisite: CHM 607.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 775 - Advanced Topics in Inorganic Chemistry

Credit Hours: 3

An in-depth examination of a special topic in the area of inorganic chemistry, including faculty lectures and student projects. Examples of proposed topics include: organometallic chemistry, bioinorganic chemistry, solid-state materials, and crystal structure analysis. Variable content course. May be repeated to a maximum of six hours with differing topics.

Prerequisite: CHM 675 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 790 - Advanced Topics in Chemistry

Credit Hours: 1-3

Detailed treatment of various advanced topics in chemistry. Variable content course. May be repeated with differing topics.

Typically Offered: Demand

CHM 791 - Preparation for Graduate Study in Chemistry

Credit Hours: 3

Orientation to graduate study in chemistry, including laboratory safety, research awareness, scientific dissemination, and design of a research project.

Prerequisite: admission to graduate program in Chemistry.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CHM 792 - Degree Paper in Chemistry**Credit Hours:** 3

Written research paper on a selected topic to be read and evaluated by an advisory committee and presented orally before a public audience. Exclusively satisfies requirements for non-thesis option.

Prerequisite: 4 or more hours of CHM 798 and departmental permission.

Lecture Contact Hours: 3

Typically Offered: Demand

CHM 793 - Research Paper in Chemistry**Credit Hours:** 1

Extensive paper on a selected topic to be read and evaluated by a faculty committee. Exclusively used to satisfy requirements for non-thesis option. Graded Pass/Not Pass only.

Prerequisite: departmental permission.

Lecture Contact Hours: 1

Typically Offered: Demand

CHM 796 - Science Internship**Credit Hours:** 1-6

Completion of an internship project (80 hours/credit hour) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

CHM 798 - Research**Credit Hours:** 1-4

Supervised research in special chemistry areas. May be repeated, but not more than six hours may be counted toward the 32-hour requirement for the MS degree.

Typically Offered: Fall, Spring

CHM 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis. Not more than 6 hours of CHM 799 may be counted toward the 32-hour requirement for the MS degree.

Typically Offered: Demand

Child Life Studies

CLS 666 - Preparation for Child Life Internship

Credit Hours: 1

This course will prepare the student for internship and professional practice; including discussion of professional/ethical issues and behavior, choosing professional development sites, setting goals, writing resumes, and interviewing skills and certification.

Typically Offered: Fall, Spring

CLS 700 - Independent Study in Child Life

Credit Hours: 1-6

Advanced inquiry into specialized areas of study in child life or continued child life research. Variable content course. May be repeated to a maximum of six hours when topics change.

Typically Offered: Fall, Spring

CLS 701 - Introduction to Child Life Studies

Credit Hours: 1

This course is designed to be a formal introduction into the Child Life Studies graduate program and the field of child life. It will include discussion of professional/ethical practices and behavior, mentorship for clinical training components, and setting of goals to meet academic and career objectives.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CLS 705 - Aspects of Childhood Illness and Disease

Credit Hours: 3

Childhood disease processes and pathophysiology, symptoms, diagnostic tests, and treatment of diseases will be discussed. Information on how disease affects a child and family's behavioral, social and emotional development and coping strategies.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 710 - Childhood Death and Bereavement

Credit Hours: 3

Various theories and practice specific interventions that assist children/youth or family members when they encounter issues of death, loss, and/or grief. Examination of those issues affecting the student personally or professionally. Development of epistemology regarding death, loss, and grief.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 715 - Play and Therapeutic Intervention

Credit Hours: 3

Developmental aspects of play and therapy related to developmental stages of children and family in the context of health-care setting. Apply play therapy techniques in dealing with childhood problems such as molestation, physical abuse, depression, trauma, and family conflict.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 720 - Trends and Issues in Child Life

Credit Hours: 3

Topics of interest from the profession of Child Life will be discussed through readings, case studies, and review of research. The application of theory and research to current practices in Child Life will be discussed. Potential research topics will be investigated and the thesis literature review will begin. Should be taken prior to SFR 780.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 730 - Cultivating a Trauma-Informed Lens

Credit Hours: 3

This course seeks to engage students in cultivating a trauma-informed lens in order to best serve diverse groups of children and families. It provides a neurobiological foundation to understanding trauma-informed care, explores Adverse Childhood Experiences, systematic applications of trauma-informed care in the contexts of education, healthcare, and community, theoretical applications, protective factors, resilience, and strength-based assessments and interventions, and best trauma-supportive practices.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 790 - Practicum in Child Life

Credit Hours: 3

Students carry out play activities; supervise activities that foster creativity, divert child/youth from stress and worry and normalize their environment; and provide opportunities for children/youth to socialize and engage in developmentally appropriate activities. Practicum must be supervised by a certified Child Life Specialist.

Prerequisite: permission of Child Life Studies Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

CLS 791 - Practicum in Child Life

Credit Hours: 1-6

Students carry out play activities; supervise activities that foster creativity, divert child/youth from stress and worry and normalize their environment; and provide opportunities for children/youth to socialize and engage in developmentally appropriate activities. Practicum must be supervised by a certified Child Life Specialist. May be repeated to a maximum of six hours.

Prerequisite: permission of the Child Life Studies Graduate Director.

Typically Offered: Fall, Spring, Summer

CLS 794 - Evidence-Based Practice Proposal

Credit Hours: 1

This course is designed for students to prepare their proposal for their evidence-based practice (EBP) statements. Information and guidance for creating evidence-based practice questions and evidence-based practice processes will be overviewed.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CLS 795 - Child Life Internship

Credit Hours: 1-9

Student will work with children/teens and families in a hospital and/or related clinical setting under the supervision of a Certified Child Life Specialist. Special attention will be given to legal, ethical, moral, educational, cultural, spiritual, and gender issues as they relate to working with children, youth, teens and their families.

Prerequisite: permission of Child Life Studies Program Director.

Typically Offered: Fall, Spring, Summer

CLS 796 - Child Life Internship

Credit Hours: 1-6

Student will work with children/teens and families in a hospital and/or related clinical setting under the supervision of a certified Child Life Specialist. In combination with CLS 795, the student will accumulate 600 hours to meet the eligibility requirement to sit for the Child Life Professional Certification Exam. Special attention will be given to legal, ethical, moral, educational, cultural, spiritual, and gender issues as they relate to working with children, youth, teens and their families. May not be repeated.

Prerequisite: permission of the Child Life Studies Graduate Director.

Typically Offered: Fall, Spring, Summer

CLS 797 - Evidence-Based Practice Research**Credit Hours:** 3

This course is designed for students to complete their evidence-based practice research project/statement.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CLS 798 - Proposal Development for Child Life Thesis**Credit Hours:** 1

Students will prepare a proposal for their thesis paper. Information and guidance completing Human Subjects Review will be provided.

Prerequisite: SFR 780.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

CLS 799 - Thesis Research in Child Life**Credit Hours:** 3

Guided development of original research and reporting in a five chapter format.

Prerequisite: CLS 798 and SFR 780.

Typically Offered: Fall, Spring, Summer

Communication**COM 621 - Communication, Mediation, and Negotiation****Credit Hours:** 3

Explores the communicative foundation for understanding the processes of mediation and negotiation as methods for resolving conflict, with an emphasis on interpersonal and organizational conflict. The course covers theories and concepts pertaining to mediation and negotiation, particularly alternative dispute resolution, and provides students the opportunity to apply concepts through a variety of experiential activities. May be taught concurrently with COM 521. Cannot receive credit for both COM 521

and COM 621.

Lecture Contact Hours: 3

Typically Offered: Spring

COM 631 - Teaching Debate

Credit Hours: 3

This course prepares the student to teach various forms of debate in a high school setting. It will explore all major forms of high school debate, including CX Policy Debate, L/D Debate, parliamentary, and Public Forum debate. May be taught concurrently with COM 532. Cannot receive credit for both COM 532 and COM 631.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 633 - Teaching Individual Events

Credit Hours: 3

This course prepares the student to teach various individual events common in a high school setting. It will explore all major high school individual events, including Foreign and Domestic Extemporaneous Speaking, Original Oratory, Poetry, Prose, Dramatic Interpretation, Humorous Interpretation, Radio Speaking, Storytelling, and Student Congress. May be taught concurrently with COM 534. Cannot receive credit for both COM 534 and COM 633.

Lecture Contact Hours: 3

Typically Offered: Spring

COM 635 - Directing Forensics

Credit Hours: 2

Problems in coaching and conducting forensic contests. May be taught concurrently with COM 536. Cannot receive credit for both COM 536 and COM 635.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Demand

COM 698 - Studies in Communication Theory and Practice

Credit Hours: 3

In-depth examination of a specific communication topic. May vary from semester to semester. Variable content course. May be repeated to a maximum of 12 hours with permission of the department. May be taught concurrently with COM 597. Cannot receive credit for both COM 597 and COM 698.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 700 - Service Learning in Communication Graduate Study

Credit Hours: 1

This service component for an existing course incorporates community service with classroom instruction in communications to provide an integrative learning experience that addresses the practice of citizenship and promotes an awareness of and participation in public affairs. Includes 40 hours of service that benefits an external community organization, agency, or public service provider. Approved service placements and assignments will vary depending on the course topic and learning objectives; a list of approved placements and assignments is available from the instructor and the Citizenship and Service-Learning Office.

Prerequisite: permission of instructor and concurrent enrollment in a communication, media, or journalism course designated as a service-learning offering.

Typically Offered: Fall, Spring

COM 701 - Introduction to Graduate Studies

Credit Hours: 3

Introduction to graduate study in communication. Topics include an overview of the field, introduction to relevant journals, library skills, professional associations, planning a program of study, and how to satisfy the research requirement.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 702 - Communication Theory and Research

Credit Hours: 3

Survey of communication theory, models, and research. Topics include perception, construction of meaning, language and symbol systems, interpersonal discourse, relationships, small group interaction, and organizational communication.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 703 - Professional Communication Skills

Credit Hours: 1

This course seeks to enhance students' awareness and appreciation of communication processes in business and professional settings. An emphasis is placed on improving skills in interpersonal relations, teamwork, and professional presentation. Skills and applications related to communication competence and impression management from the individual's perspective working within the contextual enabling and constraining of organizational hierarchy are underscored.

Prerequisite: admission to the MBA program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

COM 704 - Health Communication and Culture

Credit Hours: 3

The examination of intercultural communication concepts in the health care context. Emphasis will be on understanding the health needs of diverse populations, Western health practices, non-Western health practices, and the conflicts that can emerge when cultures collide.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 705 - Health Communication

Credit Hours: 3

Examination of communication theory in the health care context. Emphasis will be on communication effectiveness in health care professional/client relationships, in addition to message practices in small group, organizational, and mediated health campaign settings.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 706 - Rhetorical Theory

Credit Hours: 3

The study of rhetorical theories from the pre-Socratic period to the contemporary period.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 707 - Family Communication

Credit Hours: 3

This course is intended to provide students with an in-depth examination of communication as it functions in family systems.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 708 - Patient-Provider Communication

Credit Hours: 3

This course explores the nature of patient-provider interactions in health care contexts. Emphasis is placed on traditional and non-traditional health care providers, their patients, and interpersonal communication theories specific to health care interactions.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 710 - Contemporary Communication Education

Credit Hours: 3

Examination of current practices and trends in Communication Education. Graduate teaching assistants in communication are required to take this course during the first semester of the assistantship. Course is only open to graduate teaching assistants in the Department of Communication.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

COM 711 - Conflict and Communication

Credit Hours: 3

Equips students to understand the dynamics of interpersonal conflict and its resolution in a variety of community settings. Students will learn to analyze their own conflict styles and to develop self-regulation strategies for collaborative outcomes. The course covers conflict theory and research and applies these ideas to current community and organizational settings and diverse populations. Lectures/discussions by scholars, community leaders, and/or agency personnel who deal with conflict as well as simulations of conflict situations will be provided.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 712 - Quantitative Research Methods in Communication

Credit Hours: 3

Quantitative research methodology in human communication. This course is designed to teach students how to read, interpret, and conduct research that uses numerical data. Some descriptive and inferential statistical analysis included. Students will design and carry out communication research using the methods they have learned.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 713 - Public Relations Campaigns

Credit Hours: 3

This course is designed to provide students with an opportunity to explore the interface of profit and non-profit organizations with television, radio, newspapers and the internet to enhance organizational effectiveness. The course is project based focusing on developing specific media resources to meet strategic organizational communication goals.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 714 - Qualitative Research Methods in Communication

Credit Hours: 3

Qualitative research methodology in human communication. This course is designed to teach students how to read, interpret, and conduct various types of qualitative research. Students will design and carry out communication research using the methods they have learned.

Lecture Contact Hours: 3

Typically Offered: Spring

COM 716 - Rhetorical Criticism

Credit Hours: 3

Rhetorical criticism methodologies in human communication. This course is designed to teach students how to read, interpret, and conduct various types of rhetorical criticism. Major themes in rhetorical criticism explored include roles of the critic, audience, situation, theory, method, and artifact. Students will engage a rhetorical criticism project.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 717 - Communication and Diversity in the Workplace

Credit Hours: 3

Exploration of current theory and research regarding communication and diversity in the workplace. Study of practical applications for the assessment and training of communication skills relative to culture, race, sex, age, disability, sexual orientation and other diversity issues. Emphasis is placed on improving understanding of communication similarities and differences among diverse population groups. Includes readings, class discussion, observation, and/or class projects about assessment and training in communication skills in a diverse workplace.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 718 - Applied Communication Research Methods

Credit Hours: 3

In-depth examination of a specific applied communication research methodology including: survey research, media criticism, communication audits, in-depth interviewing, and focus group interviewing. Topic will vary semester to semester. May be repeated but only three hours will count toward the degree.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 719 - Ethical Issues in Communication

Credit Hours: 3

Ethical theories and justification models are studied and then related to ethical decision making in a variety of communication contexts, including interpersonal communication, group communication, organizational communication, and public communication. The course will examine the components of good ethical decision making in communication, as well as obstacles that can stand in the way of responsible choices.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 722 - Argumentation as Communication

Credit Hours: 3

Argumentation as related to decision making, conflict resolution and negotiation in business, industry, government, and education.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 723 - Contemporary Topics in Conflict

Credit Hours: 1-3

An in-depth exploration of a specific topic in conflict. Topics will vary from semester to semester and may include but are not limited to the following: Dialogue and Facilitation, Conflict and Communication Coaching, Advanced Mediation, Family Conflict, Communication and Restorative Processes, Conflict Management in Schools, and Peace and Conflict. Variable content course. May be repeated to a maximum of nine hours with permission of the department.

Typically Offered: Demand

COM 724 - Interpersonal Communication

Credit Hours: 3

Advanced study in interpersonal communication theories and concepts. Topics may include relational development and maintenance, conflict resolution, identity management, verbal and nonverbal message analysis, and information management.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 732 - Small Group Communication

Credit Hours: 3

Survey of theories and concepts related to communication in small groups. Topics include group development, roles, norms, leadership, cohesiveness, decision making, conflict, interaction analysis, and research approaches to small group communication.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 736 - Organizational Communication**Credit Hours:** 3

Advanced study of communication in organizations. Application of traditional and contemporary theories of communication and organizations in current research and practice. Particular attention is given to the symbolic nature of organizing and to the analysis of organizational culture.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 739 - Public Relations Theories and Applications**Credit Hours:** 3

Examination of concepts which underlie practices in public relations. Analysis of current practices and issues important in public relations for corporations, not-for-profit organizations, government agencies, and educational institutions.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 750 - Political Communication**Credit Hours:** 3

Examination of the communication process in modern political campaigns. Emphasis is placed on the role of communication strategies and tactics in political organization, message formation, fund raising, and mass media usage.

Lecture Contact Hours: 3

Typically Offered: Fall

COM 752 - Communication Technology and Politics**Credit Hours:** 3

This course focuses on how communication technology contributes to the political process including campaigns, discourse, and information gathering. Heavy emphasis is placed on the distribution, reception, and process of political information through all communication technology, including social media, in terms of both theory and practice.

Lecture Contact Hours: 3

Typically Offered: Spring

COM 754 - Presidential Rhetoric

Credit Hours: 3

Examination of rhetoric used in governance, with a primary focus on presidential rhetoric. Emphasis is placed on history of presidential address, genre expectations for common presidential topics, political speechwriting, and rhetorical norms for legislative and judicial rhetoric.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

COM 760 - Social Movement Communication

Credit Hours: 3

Examination of social movement communication with emphasis on functionalist, dramatistic, and symbolic convergence theories. Study of movements' use of communication to generate discontent, mobilize and coordinate support, defend themselves and attack opponents, and negotiate with external groups. Critical analysis of collective actions such as student, civil rights, identity, labor, religious, feminist, lesbian/gay, and utopian movements.

Lecture Contact Hours: 3

Typically Offered: Spring Even

COM 794 - Conflict Internship

Credit Hours: 1-3

This course allows students an applied opportunity to integrate theoretical material on conflict and dispute resolution in a variety of contexts and settings in which conflict occurs. May be taught concurrently with COM 494. Cannot receive credit for both COM 494 and COM 794.

Prerequisite: 6 hours of conflict courses; admission to the graduate certificate in Conflict and Dispute Resolution; and permission.

Typically Offered: Fall, Spring, Summer

COM 795 - Communication Internship

Credit Hours: 1-6

Independent projects in the various areas of communication. May be repeated to a maximum of six hours with permission of the department.

Prerequisite: 12 graduate hours in Communication; and permission of department.

Typically Offered: Fall, Spring

COM 796 - Independent Study

Credit Hours: 1-6

Study may be reading project or a practical application of theories. May be repeated to a maximum of six hours.

Prerequisite: permission of advisor.

Typically Offered: Fall, Spring

COM 797 - Seminar: Communication Theory

Credit Hours: 3

Special topics in history, theory and criticism of communication. Topic may vary from semester to semester. With permission, may be repeated for a maximum of six hours.

Lecture Contact Hours: 3

Typically Offered: Demand

COM 799 - Masters Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: completion of 9 graduate hours in communication; and permission of the Director of Graduate Studies and admission to the thesis option; and complete 3 graduate hours in research methods or be concurrently enrolled in one of the following courses: COM 712, COM 714, COM 716, or COM 718.

Typically Offered: Fall, Spring

Counseling

COU 700 - Problems in Counseling

Credit Hours: 1-3

Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required. May be repeated to a maximum of nine hours.

Prerequisite: admission to Counseling Program or permission.

Typically Offered: Fall, Spring

COU 701 - Assessment and Testing for Counselors

Credit Hours: 3

A comprehensive study of instruments for measuring psychological traits, including group devices suitable for use in elementary and secondary schools, as well as individual instruments for use in both school and community agency settings. Basic statistical concepts and common terminology related to measurement are taught as a functional part of the course.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 702 - School Counseling Foundations and Ethics

Credit Hours: 3

Philosophy, organization, and practices of a counseling program in the elementary and secondary school. The school counselor's role as counselor, consultant, and coordinator, professional identity, and legal issues are included. Includes a significant focus on ethical standards and issues.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 703 - Professional Orientation and Ethical Practice in School and Mental Health Counseling

Credit Hours: 3

An introduction and overview of the history, philosophy, and function of the counselor in elementary schools, secondary schools, clinical mental health settings, and other community agency settings. Includes an examination of service population characteristics and treatment needs, intervention modalities and approaches, professional identity, and related topics with a significant focus on ethical standards and issues. School counselors' various roles as counselor, consultant, and coordinator, professional identity, and legal issues are also included.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 704 - Introduction to School Counseling

Credit Hours: 3

An introduction and overview of the foundational aspects of school counseling with a focus on the development, implementation, and evaluation of a comprehensive school counseling program in elementary and secondary schools (K-12). Includes an exploration of the leadership role of school counselors within the school setting at the elementary and secondary level (K-12).

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Spring

COU 705 - Orientation to Personal and Professional Development in Mental Health and School Counseling

Credit Hours: 1

This course is an experience in personal and group encountering and sensitivity. Its purpose is to assist students in discovering a

more complete awareness, understanding, and acceptance of themselves and others as human beings. Primary emphasis will be upon students exploring self, values, needs, and personal characteristics. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 1

Typically Offered: Demand

COU 706 - Introduction to TeleMental Health in Counseling

Credit Hours: 3

This course is designed to increase knowledge and skills of counselors regarding the ethics, research, and practice associated with telemental health. Students will learn presentation skills, HIPAA compliance, best practices, crisis planning, use of technology, orienting clients, settings, and care coordination.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

COU 707 - Human Growth and Development

Credit Hours: 3

Study of child, adolescent and adult psychological development theories, normal adjustment processes, personality structure, and abnormal behavior.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 708 - Play Therapy and Child Counseling Techniques

Credit Hours: 3

A consideration of counseling with elementary school-aged children. Emphasis is placed upon play therapy and the counseling process as it affects the educational, personal, familial, and social adjustment of children.

Prerequisite: admission to a Counseling program or certificate; and COU 702 or COU 703; and COU 705; and COU 710 and COU 711 or concurrently enrollment in COU 710 and COU 711; or permission of school director.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 709 - Introduction to Mental Health Counseling

Credit Hours: 1

This is an introductory survey course which introduces counseling students to the fundamentals of mental health counseling. Topics covered include the organization of mental health structures in the public domain, including funding mechanisms, licensing issues and processes, pertinent professional organizations, and emerging trends and opportunities in the counseling

field.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

COU 710 - Counseling and Helping Relationships

Credit Hours: 2

Two training components are integrated to provide an intensive pre-practicum experience. The didactic component introduces basic skills of effective interpersonal communication and counseling. Participation in corequisite laboratory (COU 711) provides supervised practice in the practical application of those skills in simulated counseling interviews.

Prerequisite: admission to Counseling program or Student Affairs in Higher Education program; and concurrent enrollment in COU 711.

Corequisite: COU 711

Lecture Contact Hours: 2

Typically Offered: Demand

COU 711 - Counseling and Helping Relationships Lab

Credit Hours: 1

First enrollment must be concurrent with COU 710. Designed to accompany COU 710, this lab provides an opportunity for graduate students in counseling to practice basic counseling skills in role-played sessions with live observation, video-taped review and supervisory feedback. May be repeated to a maximum of three hours. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program or Student Affairs in Higher Education program.

Corequisite: COU 710

Lab Contact Hours: 3

Typically Offered: Demand

COU 714 - Social-Cultural Diversity in Counseling

Credit Hours: 3

An introduction to counseling theories, interventions and issues in working with clients from diverse, minority and ethnic cultures. Values, beliefs and norms of various cultures, including the student's, will be examined as they pertain to the counseling process.

Prerequisite: admission to Counseling program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 716 - Adolescent and Young Adult Counseling in School and Mental Health Settings

Credit Hours: 1

An introduction to adolescent and young adult counseling theory designed to help students better prepare to work with adolescents and young adults in culturally diverse school and mental health counseling settings. Emphasis is placed on relevant developmental models and the ways in which life experiences that occur during adolescence can impact early adulthood.

Prerequisite: admission to Counseling program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

COU 720 - Substance Use and Addiction Issues in Counseling**Credit Hours: 3**

This course provides an overview of the biological, psychological, social and spiritual dimensions of substance use and dependency. Addictive behaviors are presented as part of the continuum of mental and emotional behavior, and the course will include co-occurring diagnoses and their associated interventions for counseling professionals. This includes diagnosis, treatment planning and implications for diverse populations. An integrated combination of lecture, case study, and field activities will be used.

Prerequisite: admission to Counseling program; and COU 708 or COU 751; and COU 710 and COU 711; or permission of the instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 724 - Assessment and Diagnosis**Credit Hours: 3**

Study of and practice in conducting clinical interviews, appraising and assessing level of functioning and mental status, and developing diagnoses of psychoemotional disorders. Includes assessment of learning and functioning of children. An introduction to counseling theories, interventions and issues in working with clients from diverse, minority and ethnic cultures. Values, beliefs and norms of various cultures, including the student's, will be examined as they pertain to the counseling process.

Prerequisite: admission to Counseling program; and COU 710 and COU 711.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 733 - Couple and Family Counseling**Credit Hours: 3**

An introduction to the major theories of couple and family counseling and their associated interventions. An integrated combination of lecture, discussion, demonstration and role-play lab sessions will be used.

Prerequisite: admission to Counseling program; and COU 710 and COU 711.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

COU 751 - Theories and Techniques of Counseling

Credit Hours: 3

Examination of various theoretical approaches to counseling; significance of theories in counseling practice. Overview of interventions and techniques associated with each theory. Students make an intensive investigation of a problem to be selected in counseling theory and methods. Report of the investigation required.

Prerequisite: admission to Counseling program or permission of school.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 752 - Career Development

Credit Hours: 3

A consideration of the various theories of career development and their implications in counseling for vocational career development and their implications in counseling for vocational adjustment. A study of the work ethic, the labor force, and the concept of career education. Designed to give students competence in collecting and using occupational and educational information in counseling related to career development and in developing career education programs.

Prerequisite: admission to Counseling program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

COU 753 - Analysis of Childhood Learning and Adjustment

Credit Hours: 3

Acquaints student with various assessment and diagnostic procedures in evaluation of learning and adjustment problems.

Prerequisite: admission to Counseling program; and SPE 310 or SPE 340 or SPE 715; and COU 701.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 754 - Counseling for Post-Secondary and Career Readiness K-12

Credit Hours: 3

This course is designed to prepare school counselors to engage a diverse K-12 student population in early career awareness, planning, assessment, and making informed post-secondary choices crossing the spectrum of K-12, using the ASCA National Model and Missouri Comprehensive Counseling Program as a framework. Career development theories will be explored to encourage developmentally and culturally relevant application to K-12 student populations and includes a focus on work-life adjustment into advanced adult ages, including ethical implications.

Prerequisite: admission to Counseling program.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

COU 756 - Group Counseling and Group Work

Credit Hours: 3

Acquaints counselors with group counseling theories and techniques. Includes an experiential group component.

Prerequisite: admission to Counseling program.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 757 - Group Counseling Through Play

Credit Hours: 3

Introduction to group therapy methods and techniques appropriate to an elementary school or mental health setting. Emphasis is placed upon foundational group therapy skills in general for all ages, and on play therapy modalities in particular, that are appropriate for elementary-age children. Groups in an elementary setting, utilizing Missouri Comprehensive Guidance and play therapy and applications to diverse populations, will be included.

Prerequisite: COU 708; and admission to Counseling program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 765 - Research and Program Evaluation Seminar in Counseling

Credit Hours: 2

The study, analysis, and discussion of special topics, including evaluation of counseling interventions, quantitative, qualitative, and mixed methods research, and practices in program evaluation and culminating in a substantial written report. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and SFR 780 or COU 794.

Lecture Contact Hours: 2

Typically Offered: Demand

COU 766 - Psychopharmacology for Counselors

Credit Hours: 3

Seminar course designed to teach current and future counselors the fundamentals of psychopharmacological agents used in mental health. Students will learn the fundamentals of neuroanatomy and neurophysiology, and relevant aspects of neurochemistry. Once this foundation is formed, students will learn about the types of psychotropic medications commonly used for major mental health conditions, the nature of their actions, indications and contra-indications for use, common dosing guidelines, and side-effects and other related risks.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 768 - Crisis Counseling and Disaster Mental Health Response

Credit Hours: 3

An introduction to Crisis and Disaster, to the major theories and practices of crisis Intervention and Disaster Mental Health and the associated interventions throughout the Response and Recovery phases. An integrated combination of lecture, discussion, demonstration and role-play will be used.

Prerequisite: admission to Counseling Program or permission.

Lecture Contact Hours: 3

Typically Offered: Spring

COU 777 - Counseling Practicum

Credit Hours: 3

Supervised counseling experience involving work with clients from the community addressing a wide range of developmental, wellness, and health related presenting issues; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program or certificate program; and B grade or better in COU 710 and COU 714 and COU 751; and COU 711; and approval of school approval for practicum.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

COU 778 - Mental Health Practicum

Credit Hours: 3

Supervised clinical mental health counseling experience of clients from the community; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program or certificate program; and P grade in COU 777.

Typically Offered: Fall, Spring, Summer

COU 779 - School Counseling Practicum

Credit Hours: 3

Supervised clinical mental health counseling experience of clients from the community; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

Prerequisite: P grade in COU 777; and admission to Counseling program or certificate program.

Typically Offered: Fall, Spring, Summer

COU 780 - Secondary School Counseling Practicum

Credit Hours: 3

Supervised counseling with secondary school aged students and their families; observation, discussion, and evaluation of the counseling process. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and B grade or better in COU 710 and COU 714 and COU 751; and COU 711; and approval of school for practicum.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

COU 781 - Secondary School Counseling Internship

Credit Hours: 3

Supervised experience in secondary school counseling at an approved school site. Minimum of 300 hours on-site. Students will receive individual supervision on-site, and small-group supervision from the school. May be repeated to a maximum of nine hours. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and COU 777 or COU 780 or COU 782 or COU 784; and either COU 778 or COU 779; and either ELE 302 or SEC 302; and permission of school.

Lecture Contact Hours: 1 **Lab Contact Hours:** 10

Typically Offered: Demand

COU 782 - Elementary School Counseling Practicum

Credit Hours: 3

Supervised counseling with elementary school-aged children and their parents; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and B grade or better in COU 708 and COU 710 and COU 714; and COU 711; and approval of school for practicum.

Lab Contact Hours: 6

Typically Offered: Spring

COU 783 - Elementary School Counseling Internship

Credit Hours: 3

Supervised experience in elementary school counseling at an approved school site. Minimum of 300 hours on-site. Students will receive individual onsite supervision, and small-group supervision from the school. May be repeated to a maximum of nine hours. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and COU 777 or COU 780 or COU 782 or COU 784; and either COU 778 or COU 779; and either ELE 302 or SEC 302; and permission of school.

Lecture Contact Hours: 1 **Lab Contact Hours:** 10

Typically Offered: Demand

COU 784 - Mental Health Counseling Practicum

Credit Hours: 3

Supervised counseling experience of clients from the community; observation, discussion, and evaluation of counseling sessions. Graded Pass/Not Pass only.

Prerequisite: admission to Counseling program; and B grade or better in COU 710 and COU 714 and COU 751; and COU 711; and approval of school for practicum.

Lab Contact Hours: 6

Typically Offered: Demand

COU 785 - Mental Health Counseling Internship**Credit Hours:** 3

Supervised experiences (individual, family, group) in counseling at an approved community agency site. Minimum of 300 hours on-site. Students will receive individual supervision on-site, and small group supervision from the school. May be repeated to a maximum of nine hours. Graded Pass/Not Pass only.

Prerequisite: COU 777; and admission to Counseling program; and permission of school.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 787 - Advanced Play Therapy Practicum**Credit Hours:** 1-3

This course is designed to provide an advanced counseling experience with elementary-aged children from the community. It serves as an integrative component to extend and amplify play therapy counseling skills, theory, and techniques learned in previous practica. Emphasis is placed on scheduling clients, completing case notes, advocating for clients, weekly supervisor and evaluation of counseling sessions.

Prerequisite: admission to Counseling program; and COU 702 or COU 703; and COU 705 and COU 708 and COU 710 and COU 711 and COU 782; or permission of instructor.

Typically Offered: Demand

COU 788 - Introduction to Supervision, Consultation and Leadership**Credit Hours:** 3

This course is designed to address fundamental theoretical and applied aspects of clinical supervision, consultation, and leadership. Supervision addresses the theory and practice of clinical supervision in counseling and psychotherapy and provides a supervised, practical experience of doing counseling supervision in an applied setting. Consultation focuses on providing consultation services in schools and other systems. Since counselors and psychotherapists are often called upon within schools and agencies to provide leadership, the leadership component of this course surveys the literature on leadership styles, roles, and emerging trends.

Prerequisite: COU 710 and COU 711; and COU 780 or COU 782 or COU 784; and admission to Counseling EdS program or permission of school.

Lecture Contact Hours: 3

Typically Offered: Demand

COU 789 - Advanced Level: Play Therapy Supervisor

Credit Hours: 1-3

This is a course with a practicum component on-site at the Center City Counseling Clinic. The purpose of the course is to provide supervisor training in the theory and practice of supervision with master's level play therapy students to include three core knowledge areas: supervision models, theories and techniques of clinical supervision of play therapy; legal and ethical issues related to supervision; and clinical issues related to supervision.

Prerequisite: admission to Counseling program; and COU 702 or COU 703; and COU 705 and COU 708 and COU 710 and COU 711 and COU 782; or permission of instructor.

Typically Offered: Demand

COU 790 - Counseling Workshop

Credit Hours: 1-3

Improves skills and knowledge of counselors in specific areas. Each workshop considers a single topic in depth. 30 hours of participation equal one semester hour.

Typically Offered: Fall, Spring

COU 791 - K-12 School Counseling Internship

Credit Hours: 3-6

Supervised experience in school counseling at an approved school site. Minimum of 300 hours on-site. Students will receive individual supervision on-site, and small-group supervision from the school. Graded Pass/Not Pass only.

Prerequisite: COU 777; and either ELE 302 or SEC 302; and admission to Counseling program; and permission of school.

Typically Offered: Fall, Spring

COU 794 - Introduction to Research and Program Evaluation in Counseling

Credit Hours: 2

Introduction to research methods in counseling, including quantitative and qualitative methods, action research, needs assessments, and program evaluation approaches, particularly in service-delivery and educational settings. An emphasis is placed on developing an understanding of foundational research methods that will allow students to be effective critical consumers of research in counseling, identify evidence-based practices, and prepare them to design and implement sound program evaluations.

Prerequisite: admission to Counseling program.

Lecture Contact Hours: 2

Typically Offered: Demand

COU 795 - Topics in Counseling

Credit Hours: 1-3

Individual or group class designated to address specialized topics of interest to graduate students in counseling. May be repeated to a maximum of nine hours.

Typically Offered: Demand

COU 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: admission to Counseling Program or permission.

Typically Offered: Fall, Spring

Criminology

CRM 614 - Forensic Science

Credit Hours: 3

With particular emphasis on the study of forensic science (science within the framework of the American legal system), this course evaluates various types of evidence left behind at the crime scene, the technology and protocols used to collect and evaluate each piece of evidence, the weight/value each piece of evidence should be assigned within the investigation, as well as the qualifications and scope (range of expertise) each testifying expert must provide. May be taught concurrently with CRM 314. Cannot receive credit for both CRM 314 and CRM 614.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 633 - Criminal Typologies

Credit Hours: 3

This course is designed to explore the various typologies pertaining to the extent and nature of criminal offending. Students will explore patterns of crime, including crimes of interpersonal violence, property crimes, white collar crime, organized crime, public order crime and crimes committed by those in power. May be taught concurrently with CRM 335. Cannot receive credit for both CRM 335 and CRM 633.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 636 - Criminal Psychology

Credit Hours: 3

This course is designed to provide students with an in-depth analysis of principles and theories of delinquent and criminal behavior from a psychological perspective. The course will explore developmental, biological, and behavioral/cognitive risk and

protective factors as well as the process of psychological conditioning that can lead to the commission of violent criminal acts. The course will approach this study from a critical perspective, giving attention to the social, economic, and political context in which crime takes place and how these contexts influence the offender's behavior. May be taught concurrently with CRM 336. Cannot receive credit for both CRM 336 and CRM 636.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 641 - Research Methods in Criminology and Criminal Justice

Credit Hours: 3

An overview of research design as applied to research on crime and justice. Topics include hypothesis formulation, sampling techniques, reliability and validity, survey construction, field observation, and evaluation research. May be taught concurrently with CRM 340. Cannot receive credit for both CRM 340 and CRM 641.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CRM 646 - Victimology

Credit Hours: 3

This course examines the characteristics of crime victimization as it relates to the various components of the criminal justice system. Students will develop a better understanding of the contextual relationship between victims and offenders, as well as the role of police, courts and corrections in the dynamics of crime victimization, as well as the physical, emotional and financial impact of crime. May be taught concurrently with CRM 445. Cannot receive credit for both CRM 445 and CRM 646.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 657 - Forensic Psychology: Child Abuse and the Law

Credit Hours: 3

Study of the legal issues related to child abuse and exploitation. Students will gain an understanding of the law pertaining to child cases and how interactions with children can bolster or diminish the quality of children's memory report as seen by the judicial system. The Greene County Prosecutor's Office will participate in the design of this course, thus the specific legal issues discussed will remain current and may change based on the needs of the community. Identical with PSY 657. Cannot receive credit for both CRM 657 and PSY 657.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 682 - Criminal Investigation

Credit Hours: 3

This course introduces students to the methods and practices involved in criminal investigations. Topics include but are not limited to rules of arrest and evidence, investigative leads and informants, interviews and interrogations, and strategies for solving various types of crimes. May be taught concurrently with CRM 382. Cannot receive credit for both CRM 382 and CRM 682.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 697 - Special Topics and Issues in Criminal Justice

Credit Hours: 1-3

A variable topic course examining issues of crime, its causes, as well as social and political responses to crime by various institutions including government, media, law enforcement, the courts, and corrections. Variable content course. May be repeated to a maximum of six hours if the topic changes. May be taught concurrently with CRM 597. Cannot receive credit for both CRM 597 and CRM 697 unless topic changes.

Prerequisite: permission of instructor.

Typically Offered: Demand

CRM 701 - Criminal Justice Policy

Credit Hours: 3

This course takes a critical look at the construction, implementation, evaluation, and justification of a wide range of criminal justice policies and programs. Significant attention is given to methodological processes in determining policy and program effectiveness.

Prerequisite: admission to the MS in Criminology and Criminal Justice; or Criminal Justice Leadership and Management certificate program; or Master of Professional Studies program with the Criminal Justice option.

Lecture Contact Hours: 3

Typically Offered: Fall

CRM 705 - Applied Research in Criminal Justice

Credit Hours: 3

This course provides students with the background and skills necessary to conduct sound and ethical research in their professional fields and successfully navigate through academic research relevant to guiding and improving criminal justice policy and practice. The capstone requirement consists of a mini-research proposal.

Prerequisite: admission to the MS in Criminology and Criminal Justice program and successful completion of an undergraduate or graduate research methods course.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 715 - Leadership and Management in Criminal Justice

Credit Hours: 3

This course familiarizes students with theories, issues, and innovations related to leadership and management in criminal justice settings. Students are exposed to techniques aimed at enhancing leadership and management capabilities.

Prerequisite: admission to the MS in Criminology and Criminal Justice; or Criminal Justice Leadership and Management certificate program; or Master of Professional Studies program with the Criminal Justice option.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 720 - Crime Theory and Policy**Credit Hours:** 3

This course surveys various classical and contemporary theories of lawbreaking. The relationship between criminological theory and justice system policy is emphasized. A position paper on a theoretically-driven policy is required.

Prerequisite: admission to the MS in Criminology and Criminal Justice; or Crime Prevention certificate program; or Master of Professional Studies program with the Criminal Justice option.

Lecture Contact Hours: 3

Typically Offered: Fall

CRM 728 - The Ethics of Justice**Credit Hours:** 3

The emphasis for this course is on ethical leadership and decision-making in the criminal justice system. Students will use the knowledge they've gained over their academic careers to critically analyze and discuss topics in criminology and criminal justice. The course will begin by examining ethical systems that can be used to justify and direct ethical judgement. Following this, ethical issues in policing, courts, corrections, and social science research will be discussed and debated.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 730 - Juvenile Justice**Credit Hours:** 3

This course aims to stimulate and facilitate critical and reflective thought regarding the legitimacy and effectiveness of juvenile justice policy and practice in the United States. Students analyze the mission and goals of juvenile justice systems, organizational design and managerial and staff roles, contemporary policies and programs, and methods of performance evaluation in juvenile agencies.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 740 - Foundations of Homeland Defense and Security

Credit Hours: 3

This course provides an overview of homeland security and defense undertaken in the United States since September 11, 2001. The course provides students with the generally accepted knowledge required of homeland security professionals.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 741 - Cybercrime and Cyber Terrorism**Credit Hours:** 3

This course provides an in depth analysis of differences between cyber terrorism and cybercrime and the motivations that drive cyber criminals and terrorists. It also examines emerging strategies used by law enforcement and the private sector to respond to cyber attacks.

Lecture Contact Hours: 3

Typically Offered: Summer, Demand

CRM 745 - Topics in Homeland Defense and Security**Credit Hours:** 3

A comprehensive and integrated homeland security and defense strategy must also include the full range of elected officials, first responders, the human, animal and plant health communities, business and our citizens. This course will examine the application, progress and problems of the development and implementation of a homeland security/defense strategy.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 746 - Global Criminology**Credit Hours:** 3

This course explores how the traditional field of criminology is being transformed by forces of globalization.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 747 - Policing Terrorism**Credit Hours:** 3

This course examines the role of law enforcement in counter terrorism efforts in the United States. It explores law enforcement responses to terrorism from a critical, best-practices perspective and addresses controversial strategies employed by enforcement agencies responding to terrorism within the context of a democratic government.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 750 - Contemporary Issues in Policing

Credit Hours: 3

This course is a critical examination of contemporary issues in policing and considers the role of police, theories related to policing, police operations and strategies, public views about police, and outcomes of policing in the U.S.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 751 - Applied Evidence-Based Practice in Policing

Credit Hours: 3

This course examines the merits and limitations of research-informed policies and techniques utilized by law enforcement agencies to increase public safety and reduce crime. Topics will include hot spot policing, broken windows policing, CPTED, modern technological applications, focused deterrence strategies, predictive policing, problem-oriented policing, community policing, and other relevant evidence-based practices in policing.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 765 - Legal Issues in Criminal Justice

Credit Hours: 3

This course introduces the student to the role of law and courts in the criminal justice system, with a particular focus on the relationship of the law to police investigatory procedures. Particular emphasis is placed on the role of the United States Supreme Court in interpreting the Fourth, Fifth, and Sixth Amendments. Current legal issues in criminal justice will also be examined.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 770 - Correctional Theory and Practice

Credit Hours: 3

This course examines social control responses to lawbreakers including the exploration of classical and contemporary theories and philosophies that have guided American correctional policy, both institutional and community based. Management implications related to policy are addressed.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 771 - Contemporary Issues in Community Corrections

Credit Hours: 3

This course examines modern issues, problems, and practices facing the community corrections profession. A special emphasis is placed on exploring the challenges of interacting with specific types of offender populations, including mental health, substance abuse, and domestic violence offenders, in community and treatment contexts.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 772 - Applied Evidence-Based Practices in Community Corrections

Credit Hours: 3

This course reviews a range of research-informed policies, programs, and practices delivered to offenders in correctional settings to improve supervision and reduce recidivism. In addition to coverage of the relevant literatures, the course emphasizes hands-on applications of evidence-based practices through a variety of active-learning exercise.

Lecture Contact Hours: 3

Typically Offered: Fall

CRM 773 - Offender Thinking and Decision-making

Credit Hours: 3

This course explores how criminal offenders process and prioritize information when they encounter opportunities to violate supervision conditions and commit crime. Beliefs, values, and attitudes used to rationalize criminal behavior are also examined.

Lecture Contact Hours: 3

Typically Offered: Spring

CRM 777 - Crime Prevention in the Modern Age

Credit Hours: 3

This course will be a survey of crime prevention methods and the theories associated with them. Particular emphasis will be placed on deterrence and routine activities. Students will use such theories to analyze past and present methods for crime prevention and the reasons behind their successes or failures. Research and policies for crime prevention will also be examined for both public and private industries.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 780 - Gangs and Gang Policy

Credit Hours: 3

This course explores the nature and scope of street gangs and critically analyzes gang-control policies and programs. A variety of gang-related issues are discussed, including the problems inherent in defining the term "gang," the historical development and organizational structure of gangs, and gang origination, persistence, desistence, prevalence, and migration. In addition, proposed solutions to gang problems are analyzed by examining such policies and programs as gang databases, gang prosecution units, gang enhancement statutes, and civil injunctions.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 785 - U.S. Drug Control Policy**Credit Hours: 3**

This course provides a historical overview of the formulation, implementation and evaluation of U.S. drug control policy. The focus is on critically reviewing the cultural, social and political forces that have shaped our nation's drug control policies and assessing the research that has been conducted to evaluate the effects of such policies. Topics to be examined include prohibition, interdiction, eradication, legalization, law enforcement and military responses, effects on the criminal justice system, treatment, education and prevention.

Lecture Contact Hours: 3

Typically Offered: Demand

CRM 790 - Graduate Practicum in Criminology**Credit Hours: 1-6**

Faculty supervised experience in a criminology-related agency. Students are expected to work 45 hours in the agency for each credit hour. The practicum includes academic reflection on work experience at the agency. May be repeated to a maximum of six hours.

Prerequisite: permission of instructor.

Typically Offered: Demand

CRM 794 - Program Assessment in the Criminology and Criminal Justice Graduate Program**Credit Hours: 0**

Required assessment of the criminology and criminal justice graduate program. All graduate students in criminology and criminal justice are required to enroll in this course during their last semester and complete a program assessment survey. The focus is on program assessment and development rather than on individual student evaluation.

Typically Offered: Fall, Spring, Summer

CRM 796 - Independent Study in Criminology and Criminal Justice**Credit Hours: 1-6**

Faculty supervised independent research directed by a member of the school graduate faculty. May be repeated to a maximum of six hours when the topic varies.

Prerequisite: admission to the MS in Criminology and Criminal Justice or the Master of Professional Studies program with the Criminal Justice option; and permission of instructor.

Typically Offered: Demand

CRM 797 - Policy Analysis Capstone

Credit Hours: 3

This capstone experience requires an in-depth analysis of a specific criminal justice policy with an emphasis on demonstrating an understanding of the policy (including its historical background and current applications), specifying strengths and weaknesses, and offering suggestions for future research and improvement of the policy. This course should be taken the last semester of coursework.

Prerequisite: completion of 27 hours in the MS in Criminology and Criminal Justice program; and permission of a graduate faculty member.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CRM 798 - Thesis I

Credit Hours: 3

This phase of the thesis process requires the completion and successful defense of a thesis prospectus, including statement of the problem, literature review, and methodology sections.

Prerequisite: completion of 18 hours in the MS in Criminology and Criminal Justice Program; and permission of graduate thesis committee following the successful defense of an initial concept paper.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CRM 799 - Thesis II

Credit Hours: 3

This phase of the thesis process calls for the collection, analysis, and interpretation of data and the development of final conclusions and implications. The final product must be successfully defended in front of the thesis committee.

Prerequisite: completion of 18 hours in the MS in Criminology and Criminal Justice program; and approval of thesis prospectus by the student's thesis committee.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

Computer Science

CSC 600 - Hardware, Software, and Troubleshooting Personal Computers

Credit Hours: 3

An introduction to the installation, maintenance, troubleshooting, upgrading, simple repair, and management of personal computers found in educational settings. This course will provide numerous laboratory experiences providing hands-on experience with the goal of enabling students to support personal computer laboratories found in PK-12 schools. May be taught concurrently with CSC 500. Cannot receive credit for both CSC 500 and CSC 600.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

CSC 605 - Web-Based Resources in Educational Settings**Credit Hours: 2**

An introduction to the design, implementation, and management of World Wide Web resources over the internet and intranet networks. Topics include Internet overview, web authoring, web programming, server setting and maintenance. The objective of the course is to know tools (HTML, JavaScript, and Java applets, and Internet Server software, and Navigator/Internet Explorer software packages), and their applicability in WWW design and management in PK-12 school settings. May be taught concurrently with CSC 505. Cannot receive credit for both CSC 505 and CSC 605.

Lecture Contact Hours: 2

Typically Offered: Demand

CSC 610 - Networking and Telecommunications in Educational Settings**Credit Hours: 2**

An introduction to networking and data communications from an educator's perspective. The course will examine the necessary computer hardware, software, and personnel resources relevant to networking and data communication requirements in various educational settings. Local Area Networks, Wide Area Networks, Network Interconnections, and the internet will be addressed. May be taught concurrently with CSC 510. Cannot receive credit for both CSC 510 and CSC 610.

Lecture Contact Hours: 2

Typically Offered: Demand

CSC 611 - Algorithms and Advanced Data Structures**Credit Hours: 3**

A study of algorithms and advanced data structures including graphs, heaps, hashing, self-adjusting data structures, set representations, greedy algorithms, dynamic programming and introduction to NP-complete problems. The course emphasizes on the study of efficiency and algorithm analysis. May be taught concurrently with CSC 325. Cannot receive credit for both CSC 325 and CSC 611.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 612 - Advanced Database System Concepts

Credit Hours: 3

A study of modern database systems and their underlying concepts. Core topics include the relational model, SQL, database design theory, query processing, file structures, transactions, and concurrency. Programming projects provide practical experience in developing GUI database applications. May be taught concurrently with CSC 335. Cannot receive credit for both CSC 335 and CSC 612.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 613 - Computer Systems Fundamentals**Credit Hours:** 3

An integrated introduction to computer systems fundamentals. Topics include computer architecture and major components, operating system concepts and implementation techniques (processes, threads, memory management, and distributed systems), and network theory, concepts and techniques. May be taught concurrently with CSC 344. Cannot receive credit for both CSC 344 and CSC 613.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 615 - Advanced Internet Programming**Credit Hours:** 3

Topics include HTML as a semantic language, advanced CSS techniques, the DOM event model, asynchronous JavaScript, user input validation, utilizing 3rd party APIs, authentication over HTTP and high performance site design (including request minification and compression). Security principles will be reinforced throughout the course. May be taught concurrently with CSC 515. Cannot receive credit for both CSC 515 and CSC 615.

Lecture Contact Hours: 3

Typically Offered: Spring

CSC 621 - Compiler Construction**Credit Hours:** 4

Topics include lexical analysis, parsing, symbol tables, type checking, run-time organization, code generation, basic code optimization, and the use of compiler development tools. The student must write a complete compiler for a small imperative programming language. May be taught concurrently with CSC 521. Cannot receive credit for both CSC 521 and CSC 621.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Demand

CSC 625 - Computer Graphics

Credit Hours: 3

An introduction to two-dimensional and three-dimensional computer rendering. Topics will include computer graphics API's, techniques and algorithms for object modeling, viewing, transformations, and event-driven programming. May be taught concurrently with CSC 525. Cannot receive credit for both CSC 525 and CSC 625.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 626 - Methods of Optimization**Credit Hours:** 3

Convex sets, classical optimization of functions, constrained optimization, search techniques, linear and nonlinear optimization, applications to applied problems. May be taught concurrently with CSC 526. Cannot receive credit for both CSC 526 and CSC 626.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 630 - Introduction to Data Science**Credit Hours:** 3

An introduction to software and techniques used in data science. Topics will include sources of data, data preparation, data analysis, use of software tools, development of data analysis software, and ethical and legal considerations. May be taught concurrently with CSC 330. Cannot receive credit for both CSC 330 and CSC 630.

Prerequisite: admission to a Computer Science graduate program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 635 - Data Mining**Credit Hours:** 3

Introduction to the basic concepts of data mining including data preprocessing, classification, clustering and association rules mining. The focus will be on understanding the algorithms underlying data mining and on the practical use of those algorithms. May be taught concurrently with CSC 535. Cannot receive credit for both CSC 535 and CSC 635.

Recommended Prerequisite: equivalent of CSC 232.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 640 - Introduction to Artificial Intelligence

Credit Hours: 3

Modern techniques for the implementation of goal-directed behavior in intelligent systems, including knowledge representation, search, perception, reasoning, and learning. May be taught concurrently with CSC 540. Cannot receive credit for both CSC 540 and CSC 640.

Recommended Prerequisite: equivalent of CSC 325.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 645 - Computer Speech, Music and Images**Credit Hours:** 3

This is an applied course focusing on the technical aspects of computer-based multimedia-speech, music, audio, and video. In any given semester, the focus may be more on audio or image processing, or it may be equally balanced between the two. Topics include multimedia data capture and representation, methods of data compression, multimedia information retrieval, and multimedia standards. May be taught concurrently with CSC 545. Cannot receive credit for both CSC 545 and CSC 645.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 655 - Software Quality Assurance and Project Management**Credit Hours:** 3

A broad coverage of software quality and testing including quality assurance, inspections and reviews, software validation and verification, various testing techniques, and related tools. Other topics are essential software project planning steps, cost estimation, productivity metrics, release and configuration management concepts. May be taught concurrently with CSC 455. Cannot receive credit for both CSC 455 and CSC 655.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 660 - Operating Systems**Credit Hours:** 3

Introduction to operating systems concepts, principles, and design. Topics include: processes, threads, CPU scheduling, mutual exclusion, process synchronization, deadlocks, memory management, file systems, i/o systems, disk management, distributed systems, security and protection. May be taught concurrently with CSC 360. Cannot receive credit for both CSC 360 and CSC 660.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CSC 665 - Computer Networks

Credit Hours: 3

An introduction to the theory, concepts and techniques upon which modern computer networks are based. The emphasis will be on layered network architectures, the design frameworks for both local and wide area networks and communication protocols. May be taught concurrently with CSC 565. Cannot receive credit for both CSC 565 and CSC 665.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 667 - Mobile Computing Applications**Credit Hours:** 3

An introduction to the design, development, and publication of software applications for mobile devices. Course topics will include design and creation of basic and advanced applications, use of an integrated development environment, performance and security issues, and application packaging and distribution mechanisms. May be taught concurrently with CSC 567. Cannot receive credit for both CSC 567 and CSC 667.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 687 - Computing for Bioinformatics**Credit Hours:** 3

This course focuses on computational techniques used in bioinformatics. Topics will include nucleotide and amino acid data representation, sequence alignment, coding sequence prediction, and use of statistical models. Students will learn to use bioinformatics libraries with a script language such as Python or Perl. May be taught concurrently with CSC 587. Cannot receive credit for both CSC 587 and CSC 687.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 690 - Advanced Topics in Computer Science**Credit Hours:** 1-4

Variable content course with topics in the field of Computer Science. Topics may be identified by title in the schedule of classes. May be repeated in a different topic is offered. May be taught concurrently with CSC 590. Cannot receive credit for both CSC 590 and CSC 690.

Typically Offered: Demand

CSC 696 - Special Readings**Credit Hours:** 1-3

Directed study with a faculty member. Periodic conferences with the faculty member are required. A maximum of three credit hours may count towards the degree. May be taught concurrently with CSC 596. Cannot receive credit for both CSC 596 and

CSC 696.

Prerequisite: permission of department head.

Typically Offered: Demand

CSC 701 - Seminar I

Credit Hours: 1

Computer Science literature and research methods. Students will read research literature in Computer Science and make presentations describing that research. Students will attend presentations by faculty, visitors, and other students. Graded Pass/Not Pass only.

Lecture Contact Hours: 1

Typically Offered: Fall

CSC 702 - Seminar II

Credit Hours: 2

Continuation of CSC 701 with a focus on tools and methods for data analysis. Students will make oral presentations that report experimental results and will attend presentations by faculty, visitors, and other students. Graded Pass/Not Pass only.

Prerequisite: CSC 701 or concurrent enrollment.

Lecture Contact Hours: 2

Typically Offered: Spring

CSC 703 - Research Methods

Credit Hours: 3

The course will introduce the research methods, tools, ethics, and approaches. Students will become familiar with the research process, qualitative and quantitative analysis, and mixed methods approaches. Students will learn to critically review literature relevant to the Computer Science field or interest and find how their findings can be useful in their understanding of and solving real-world problems. Students will attend presentations by faculty, visitors, and other students. Students will write a research proposal and make oral presentations.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 735 - Data Analytics

Credit Hours: 3

Study of tools, techniques and frameworks for extracting useful information from large data. Study of machine learning algorithms for data analytics. Visual display of results.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 736 - Machine Learning

Credit Hours: 3

Machine learning explores the study and construction of algorithms that can learn from data. This study combines ideas from both computer science and statistics. The study of learning from data is playing an increasingly important role in numerous areas of science and technology. This course will familiarize students with several frequently used machine learning models and algorithms to attack real world problems and prepare students for research or industry application of machine learning techniques.

Prerequisite: CSC 325 or CSC 611 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 737 - Deep Learning

Credit Hours: 3

A study of neural networks, including backpropagation, loss functions, gradient descent, convolutional neural networks, recurrent neural networks, regularization techniques, network architectures, transfer learning, generative models.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 742 - Evolutionary Computing

Credit Hours: 3

Principles and applications of programs inspired by biological principles. Genetic algorithms and their use in search and optimization. Problem representation, operators, and control. Artificial life and the use of evolutionary computation in robotics.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 745 - Advanced Multimedia Programming

Credit Hours: 3

Advanced aspects of computer-based multimedia. Topics may differ from semester to semester but will be chosen from computer vision, speech recognition, gesture recognition, image and audio signal processing, data visualization, and multimedia information retrieval.

Lecture Contact Hours: 3

Typically Offered: Fall

CSC 746 - Human Computer Interaction

Credit Hours: 3

Research and practice in Human-Computer interaction (HCI). Impact of human perception and cognition on user interface design. Tools for building graphical user interfaces (GUIs) and multimodal user interfaces incorporating speech and gesture. Research methods.

Lecture Contact Hours: 3

Typically Offered: Fall

CSC 747 - Multimedia Communications

Credit Hours: 3

This course introduces fundamental technologies for multimedia coding, processing, and communications. Emphasis will be given on content representation, delivery over a variety of networks, and various applications including compression, adaptation, and authentication.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 750 - Advanced Topics in Software Engineering

Credit Hours: 3

This course will provide understanding and knowledge of the software engineering techniques and practices, and CASE tools to build modern software products and services. Focus will be on strengthening students programming knowledge by extending it with specific techniques for software requirements gathering and analysis, software architecture and design, testing, and basic project management. Students will also familiarize themselves with the recent advances in software engineering techniques, investigate any associated challenges and outstanding problems, and perform graduate-level research for potential solutions to those challenges and problems. A group project will require the application of the software engineering concepts from requirements gathering to deployment and evaluation.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 755 - Software Testing and Quality Assurance

Credit Hours: 3

Various topics in software testing and quality assurance concepts will be covered including inspections and reviews, validation and verification, testing techniques, and related tools. Selective software project planning steps, cost estimation, productivity metrics, as well as release and configuration management concepts will be also covered. Cannot receive credit for both CSC 455 and CSC 755.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 765 - Ubiquitous Computing and Internet of Things

Credit Hours: 3

An introduction to some of the fundamental concepts and state-of-the-art research in the areas of ubiquitous computing (UbiComp). A significant portion of the course will cover the Internet of Things (IoT). Less emphasis will be given to the hardware and device level details. The major focus of this course is Internet Evolution and Wireless Technologies, Location Services in UbiComp, context-aware computing, privacy and security, wearable computing, mobile OS, IoT and data analytics, cloud computing. Students will learn to carry out research in UbiComp and IoT.

Prerequisite: CSC 565 or CSC 665 or equivalent course or background approved by the instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

CSC 790 - Graduate Topics in Computer Science

Credit Hours: 1-4

Variable content course with topics that can change from semester to semester. Topics may be identified by title in the class schedule. May be repeated if a different topic is offered.

Typically Offered: Demand

CSC 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

CSC 798 - Graduate Project in Computer Science

Credit Hours: 1-3

Students will complete and present a supervised graduate research or development project in Computer Science. Tentative tasks and semester-end outcomes must be prepared in consultation with the supervising faculty within the first week of the semester. May be repeated, but no more than six hours may count towards the degree program.

Prerequisite: permission of department head.

Typically Offered: Fall, Spring, Summer

CSC 799 - Thesis

Credit Hours: 1-6

Independent research leading to writing and defending a successful thesis in Computer Science. Students will conduct research,

analyze, interpret, apply, and disseminate the findings. A thesis proposal must be successfully defended after the completion of no more than three hours of thesis work. No more than six hours may count toward the degree program.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

Communication Sciences and Disorders

CSD 602 - Acquired Disorders and Their Neuropathological Bases

Credit Hours: 2

This course introduces students to acquired speech/voice, language, cognitive and swallowing disorders. Emphasis is on the underlying neuropathological bases for symptoms. Because of significant overlap in content, students who have received credit for CSD 602 cannot also receive credit for CSD 417 or CSD 316.

Prerequisite: admission to the Preparation for Graduate Study in Speech-Language Pathology certificate program, the Speech-Language Pathology Assistant certificate program, or permission.

Lecture Contact Hours: 2

Typically Offered: Fall

CSD 611 - Phonetics

Credit Hours: 2

Instructional application of international phonetic alphabet in transcribing normal/disordered American English. May be taught concurrently with CSD 210. Cannot receive credit for both CSD 210 and CSD 611.

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 619 - Anatomy and Physiology of Speech

Credit Hours: 3

Particular structure and functions of human anatomy related to the processes of speech. May be taught concurrently with CSD 319. Cannot receive credit for both CSD 319 and CSD 619.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 623 - Neural Bases of Human Communication

Credit Hours: 3

Study of the nervous system and its role in normal and abnormal speech and language processing. May be taught concurrently with CSD 522. Cannot receive credit for both CSD 522 and CSD 623.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 627 - Developmental Disorders of Speech and Language

Credit Hours: 2

Overview of issues related to the nature, evaluation, and treatment of developmental speech sound and language disorders.

Prerequisite: CSD 210 or CSD 611; and admission to the Preparation for Graduate Study in Speech-Language Pathology certificate program or the Speech-Language Pathology Assistant certificate program.

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 633 - Speech-Language Pathology Assistant Internship

Credit Hours: 2

Professionally supervised observation and practice assisting a licensed speech-language pathologist in a school or other setting. Students enrolled in this course may be required to have TB test, immunizations, and background checks.

Prerequisite: admission to the Speech-Language Pathology Assistant certificate program.

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 634 - Hearing and the Impact on Speech and Language

Credit Hours: 1

Overview of issues related to the impact of hearing on speech and language development and communication. Types of hearing loss, forms of hearing assessment, and principles of prevention, intervention, and (re)habilitation are presented as foundations for practicing speech-language pathologists and speech-language pathology assistants.

Prerequisite: admission to the Preparation for Graduate Study in Speech-Language Pathology certificate program, the Speech-Language Pathology Assistant certificate program, or permission.

Lecture Contact Hours: 1

Typically Offered: Fall, Summer

CSD 651 - Medical Terminology for Communication Sciences and Disorders

Credit Hours: 3

This course offers students in-depth instruction in recognizing medical terms. Students will learn medical root words, prefixes, suffixes, acronyms, and abbreviations and apply them to patient conditions and work settings common to speech language pathology and audiology. Course may be taught concurrently with CSD 351. Cannot receive credit for both CSD 351 and CSD 651.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 669 - Psycho-Social Implications of Being Deaf and Hard of Hearing

Credit Hours: 3

Characteristics and problems of persons who are D/HH as they affect interaction with general society. Emphasis on interpersonal relationships through the lifespan. Introduction to adolescent development and psychology of learning of the typical child. May be taught concurrently with CSD 562. Cannot receive credit for both CSD 562 and CSD 669.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 673 - Aural Rehabilitation

Credit Hours: 3

Principles of habilitation/rehabilitation of communication disorders related to hearing impairment. Types of amplification and assistive listening devices used in classrooms. Issues of classroom acoustics and ways to optimize the classroom listening environment. May be taught concurrently with CSD 572. Cannot receive credit for both CSD 572 and CSD 673.

Prerequisite: CSD 360.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 681 - Technical Solutions in Communication Disorders

Credit Hours: 3

Review and demonstration of current hard- and software systems for the evaluation, treatment, and research of communication disorders. May be taught concurrently with CSD 580. Cannot receive credit for both CSD 580 and CSD 681.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 685 - Development, Diversity, and Deafness

Credit Hours: 3

Includes prevalence, terminology and the effects of hearing loss and its management on child development. Comprehensive scope of communication options will be explored. Exceptionalities, including cultural and linguistic differences among individuals who are deaf or hard of hearing will be considered within the context of family and development, both educationally and socially. Fifteen hours of integrated service-learning will be a component of the course. May be taught concurrently with CSD 380. Cannot receive credit for both CSD 380 and CSD 685. Students in this course will be required to complete additional assignments compared to those students in CSD 380 for the purpose of developing skills, knowledge, and dispositions related to teaching and learning in varied settings with diverse learners required for all educators to be effective in a global society.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 686 - Introduction to Clinical Methods

Credit Hours: 3

A study of assessment and treatment principles, methods and procedures relating to speech, language and hearing disorders. May be taught concurrently with CSD 482. Cannot receive credit for both CSD 482 and CSD 686.

Prerequisite: CSD 602 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 701 - Research: Deaf and Hard of Hearing

Credit Hours: 1

Foundation for research study in the education of individuals who are deaf and hard of hearing. Emphasis will be placed on evaluation of research and professional writing as it pertains to education of individuals who are deaf and hard of hearing.

Prerequisite: permission.

Lecture Contact Hours: 1

Typically Offered: Summer

CSD 702 - Research Methods for the Health Professions

Credit Hours: 3

This course serves as an introduction to the evaluation and application of research methodology in the context of health and human services. The specific aim of this course is to help students grasp the relations between the research question, design, and method(s), the measurement of constructs, and the data/theoretical interpretations. The material will be presented in a manner to strike a balance between fundamental, conceptual, technical, and methodological activity to scientific and clinical research. Identical with ATC 732, NUR 772, PBH 760, or RCH 730. Can only receive credit for one of following: ATC 732, CSD 702, NUR 772, PBH 760, or RCH 730.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

CSD 710 - Developmental Psycholinguistics

Credit Hours: 3

Presentation of current theories associated with psycholinguistic development. Focus will be on auditory perception, individual differences, cognitive hypotheses, and stage transition.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 712 - Child Language and Literacy

Credit Hours: 4

Issues related to the area of language development and disorders in children age birth to high school age will be presented. The course will focus on best practices for the assessment and treatment of language and literacy disorders.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 4

Typically Offered: Fall

CSD 713 - Child Language II

Credit Hours: 3

Current issues within the area of oral and written language development and disorders in school-age children and adolescents will be discussed. Methods for critically evaluating research and applying this research to clinical practice with children and adolescents with language disorders will be covered. Focus of course is on optimal methods for assessment and treatment of language disorders in children and adolescents.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

CSD 714 - Language Disorders: Rehabilitation

Credit Hours: 3

Diagnostic and therapeutic strategies for language disorders in adults associated with auditory discrimination, perception, short and long-term memory, semantic and syntactical concept formation, and retrieval of auditory information.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 715 - Infants and Toddlers: Communication Assessment and Treatment

Credit Hours: 2

Issues regarding communication assessment and intervention for infants and toddlers will be discussed. Course content will include a study of at-risk factors and established risks for developmental disabilities. Service delivery models for the assessment and treatment of communication disorders for infants and toddlers will be presented. Play-based assessment and intervention strategies will be included in course content.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2

Typically Offered: Summer

CSD 716 - Craniofacial Anomalies

Credit Hours: 3

The study of communication and associated problems related to congenital and acquired craniofacial anomalies. Emphasis on interdisciplinary procedures relative to amelioration of communication deficits manifest in these anomalies.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 718 - Fluency Disorders

Credit Hours: 2

Theoretical, clinical, and experimental approaches to the study and treatment of fluency disorders.

Lecture Contact Hours: 2

Typically Offered: Fall, Summer

CSD 720 - Voice and Upper Airway Disorders

Credit Hours: 3

Advanced study of the pathophysiology of disordered voice production, resonance, and related respiratory systems. Emphasis on perceptual and instrumental evaluation and treatment of voice and resonance disorders. Examines the nature and clinical and instrumental assessment and management of voice production and voice disorders from a comprehensive evidence-based approach. Content also includes care and management of the professional voice, trans voice, and other voice concerns.

Prerequisite: Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

CSD 724 - Aphasia and Cognition

Credit Hours: 4

Theoretical and clinical analysis of the neurological basis for describing, diagnosing, and remediating cognitive-communication disorders due to acquired brain impairments and progressive neurological diseases. Emphasis on neuropathophysiology of etiologies and on evidenced-based practices for evaluation and intervention of disorders related to traumatic brain injury, right hemisphere dysfunction, dementia, aphasia, and other related neurogenic communication disorders. Medical aspects of neurological rehabilitation and neuroimaging will be introduced.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 4

Typically Offered: Fall, Spring

CSD 725 - Motor Speech Disorders

Credit Hours: 2

Study of neurogenic speech disorders. Emphasis on the evaluation and treatment of (1) the dysarthrias and dyspraxias, and (2) underlying neurologic and vocal tract dysfunction.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 2

Typically Offered: Fall

CSD 726 - Diagnostics: Speech and Language Assessment

Credit Hours: 3

Principles and procedures for tests of language and speech dysfunctions. Interpretation of diagnostic findings leading to clinical decision-making, rehabilitative planning and reporting. Students obtain clinical experience in diagnostic procedures at the University Speech and Hearing Clinic.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

CSD 728 - Advanced Study of Phonological (Sound System) Disorders in Children

Credit Hours: 3

Discussion of processes involved in phonological production and how breakdowns in these processes, including hearing loss or deafness, lead to specific problems. Methods for critically evaluating research and applying this research to the study of phonological disorders will be covered. Focus of course is on optimal methods for assessment and treatment of phonological disorders in children.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 729 - Cognitively-Based Communication Disorders

Credit Hours: 2

Exploration of the pathophysiology, nature, appraisal, prevention, and management of a variety of neurogenic communication disorders, excluding the aphasias, that affect human cognition. These disorders include right hemisphere syndrome, and traumatic brain injury, in both children and adults, and the dementias.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 2

Typically Offered: Summer

CSD 732 - Autism Spectrum Disorders and Special Populations

Credit Hours: 3

Information on the speech and language disabilities associated with children with special needs. Target populations will include children with autism spectrum disorders and other special populations. Communication development and prevention, assessment, and intervention for these populations will be addressed.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 733 - Introduction to Augmentative and Alternative Communication

Credit Hours: 2

This course will cover the basic components of AAC as well as assessment and intervention strategies. In addition, the operation, evaluation, and application of the technology associated with AAC will be presented. AAC assessment and intervention will be discussed in regards to the following populations: children and adults with developmental disabilities and individuals with acquired disabilities.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 2

Typically Offered: Fall

CSD 736 - Diversity, Equity, and Inclusion in Communication Sciences and Disorders

Credit Hours: 2

Course will address diversity, equity, and inclusion in clinical practice. Will include the impact of students' cultural perspectives and biases on service delivery, the social determinants of health, multiple language learning, and Deaf culture.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 2

Typically Offered: Summer

CSD 741 - Adult Dysphagia

Credit Hours: 2

This course provides a thorough understanding of normal swallow physiology and its related disorders in the adult populations. Etiological factors are reviewed, noting the high-risk categories for varied cultural groups. Instrumental diagnostic techniques are introduced. Emphasis is given to multiple management issues in general with consideration towards varied cultural groups. Interdisciplinary approaches to the assessment and treatment of swallowing disorders are discussed.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 742 - Speech-Language Services in Medical Settings

Credit Hours: 2

This course is designed to provide a guide to the concepts, policies, and procedures encountered in the medical setting. It is hoped that at the end of this course, students will feel more comfortable entering the medical setting in various practicum settings that are required in our graduate program.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2

Typically Offered: Summer

CSD 743 - Pediatric Dysphagia

Credit Hours: 2

This course provides a thorough understanding of normal swallow physiology and its related disorders in the pediatric populations. Etiological factors are reviewed, noting the high-risk categories for varied cultural groups. Instrumental diagnostic techniques are introduced. Emphasis is given to multiple management issues in general with consideration towards varied cultural groups. Interdisciplinary approaches to the assessment and treatment of swallowing disorders are discussed.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Lecture Contact Hours: 2

Typically Offered: Summer

CSD 767 - Amplification Systems in the Educational Setting

Credit Hours: 3

The different types of amplification and assistive listening devices used in classrooms will be discussed in detail. Students will be able to discuss issues of acoustics and amplification devices in educational settings. They will learn vocabulary needed for communication with other professionals, and they will obtain hands-on experience with hearing aids and assistive devices found in classrooms.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 782 - Acoustic Phonetics

Credit Hours: 3

Investigation of the acoustic characteristics of normal and pathological speech and voice production.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

CSD 783 - Physiological Phonetics

Credit Hours: 3

Analyses of the physiological features underlying voice, speech and language processes; theories of encoding, and encoding control mechanisms.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

CSD 784 - Non-Thesis Project

Credit Hours: 1-3

In-depth study in an area of communication sciences and disorders, culminating in a presentation of an extensive scholarly paper. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for one credit hour per semester for a minimum of three semesters; may be repeated. DHH Emphasis: Students register for three credit hour in the first semester of enrollment and then one credit hour in the subsequent semester for a minimum of four credit hours, may be repeated.

Typically Offered: Fall, Spring, Summer

CSD 788 - Professional Issues I: Education Settings

Credit Hours: 3

This course will be taught in conjunction with student's school practicum experiences and will focus on professional issues in school settings. Topics will include overview of service delivery systems, business aspects of service delivery, scope of practice, quality assurance/assessment, legal and ethical responsibilities, professional organizations, and career development issues.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 789 - Professional Issues

Credit Hours: 3

This functionally-oriented course is designed to complement students' concurrent clinical externships in educational and healthcare settings. Issues include, but are not limited to, in-depth discussion and analysis of relevant local, state, and national policies and procedures for ethical and effective evidence-based service delivery; models of collaborative team assessment and treatment applications to a variety of speech-language pathology settings; professional organizations; and recognition of potential external influences that may impact treatment objectives and length of intervention.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 790 - Workshop in Communication Disorders

Credit Hours: 1-6

A concentration of work to improve the skill and knowledge in specific areas. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. Thirty clock hours equal one semester hour. May be repeated to a maximum of six hours.

Prerequisite: permission.

Typically Offered: Demand

CSD 791 - Professional Issues in Speech-Language Pathology

Credit Hours: 2

Functionally-oriented course designed to complement students' concurrent clinical externships in educational and healthcare settings. Issues include, but are not limited to, in-depth discussion and analysis of relevant local, state, and national policies and procedures for ethical and effective evidence-based service delivery; models of collaborative team assessment and treatment applicable to a variety of practice settings; and recognition of potential external influences that may impact treatment objectives and length of intervention.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 792 - Independent Study

Credit Hours: 1-3

Study may be a reading project or a practical application of theories. May be repeated to a maximum of four hours.

Prerequisite: permission.

Typically Offered: Demand

CSD 794 - Orientation to Clinic Speech Pathology

Credit Hours: 1

Preparation for practicum work in speech pathology. Clinic procedures, observation guidelines, documentation requirements, shadowing of practicing clinicians, development of integration of knowledge and skills in speech pathology.

Prerequisite: CSD 712 or concurrent enrollment.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

CSD 795 - Advanced Clinical Practice

Credit Hours: 1-6

Training in audiology, speech and language disorders, and education of the deaf and hard of hearing in clinical, hospital, school, and/or other settings. May be repeated.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Typically Offered: Fall, Spring, Summer

CSD 797 - Speech-Language Pathology Externship**Credit Hours:** 1-4

Professionally supervised practice in speech-language assessment and intervention in clinical, hospital, school, and/or other settings. Students enrolled in this course may be required to have a TB test, immunizations, and malpractice insurance. May be repeated.

Prerequisite: CSD 712 or concurrent enrollment.

Typically Offered: Fall, Spring, Summer

CSD 799 - Masters Thesis**Credit Hours:** 1-6

In-depth research culminating in a presentation and defense of the thesis. Syllabi with specific expectations will be developed for each semester. SLP Emphasis: Students register for two credit hours per semester for a minimum of three semesters; may be repeated. DHH Emphasis: Students register for three credit hours per semester for a minimum of two semesters; may be repeated. Students must be registered for at least one credit hour until the thesis has been approved.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders.

Typically Offered: Fall, Spring, Summer

CSD 800 - Research Methods in Audiology**Credit Hours:** 3

This course will outline the research process in audiology beginning from proposing a research question to drawing and disseminating conclusions. Special emphasis will be place on conducting clinical research and evaluating published research findings in audiology.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 807 - Auditory System: Physiology/Neurophysiology**Credit Hours:** 3

This course describes in depth aspects of the peripheral and central auditory system as it pertains to anatomy and physiology. Students learn about the functional development of the human auditory system as well as comparative anatomy. The peripheral anatomy will include external (pinna, canal, and tympanic membrane), middle (ossicular mechanism, eustachian tube, facial nerve) and cochlear structures (microanatomy, ultrastructures, sensory epithelium, cochlear fluids, vascular system). The central

anatomy will include the cochlear nerve, neural transmission, afferent and efferent pathways (brainstem and midbrain) and cortical function.

Prerequisite: admission to Doctor of Audiology program.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 834 - Diagnostic Audiology

Credit Hours: 3

A comprehensive study of a variety of site of lesion tests. The course will cover acoustic immittance and reflectance measures including tympanometry and acoustic reflex measures for detection of middle ear disorders and site of lesions in the auditory pathway. Other site of lesion tests include threshold and suprathreshold tone decay, loudness recruitment, loudness balance. Short Increment Sensitivity Index, Bekesy tests and brief tone audiometry. Tests for detection of nonorganic hearing loss will also be discussed.

Prerequisite: admission to Doctor of Audiology program.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 835 - Auditory Electrophysiology I

Credit Hours: 4

This course introduces the electrophysiological auditory responses with a focus on the inner ear responses. The course discusses the different types of otoacoustic emissions (OAEs) and the cochlear potentials of the Electrocochleography test (cochlear microphonics [CM] and summing potentials [SP]) in detail. Students will learn how to record, analyze and interpret OAEs, CM and SP. Students will, also, learn screening and diagnostic applications of electrophysiological responses in a variety of auditory pathologies. Several academic disciplines contribute to the material covered, including: physiology, anatomy, and pathology. Topics extend to the auditory efferent system, ototoxicity monitoring, neonatal hearing screening, noise induced hearing loss, and beyond. Advanced study of auditory evoked responses applied in audiology.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 4

Typically Offered: Fall

CSD 840 - Speech Pathology for the Audiologist

Credit Hours: 3

In-depth discussion of normal and disordered speech and language development, with emphasis on hearing loss and its effect on speech and language. Central auditory processing disorders, adult communication disorders, and proper evaluation and referral processes for speech and language also discussed.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 842 - Vestibular Assessment and Rehabilitation

Credit Hours: 3

An examination of the physiological aspects of the vestibular system, chemical effects on the vestibular system, medical and chemical treatment methods, balance system assessment, assessment of the efficacy of intervention, and anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 844 - Auditory Electrophysiology II

Credit Hours: 3

A look at various techniques and theories behind electrodiagnostic testing procedures. Advanced study of auditory evoked responses applied in audiology. Anatomy, neuroanatomy, and physiology of the pertinent sections of the auditory system (peripheral and central) will be covered.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 846 - Instrumentation and Calibration

Credit Hours: 3

Detailed investigation into instrumentation and calibration and its importance in the field of Audiology. Emphasis on bioelectrical hazards, physical characteristics and measurement of acoustic, electric, and other non-acoustic stimuli, determination of calibration in relation to accepted standards, and use of various types of instrumentation according to manufacturer's specifications and recommendations.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

CSD 848 - Cochlear Implants and Other Assistive Listening Devices

Credit Hours: 3

This course provides an investigation into the various types of cochlear implants and an understanding of the anatomical and psychological aspects, including controversies surrounding implantation of children. Emphasis will include intervention and therapy techniques for children and adults with cochlear implants and other alternative listening devices.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

CSD 849 - Basic Audiometry

Credit Hours: 3

This course describes aspects of basic diagnostic testing in clinical audiology. Students learn about basic diagnostic test procedures including air-conduction and bone-conduction threshold testing, speech audiometric test procedures and clinical masking procedures.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 850 - Pediatric Audiology

Credit Hours: 3

Overview of auditory development. Presentation of auditory disorders, audiological assessment, and treatment needs specific to infants and children. Emphasis on parent-child interactions and family dynamics in habilitating hearing-impaired children. Relevant calibration and instrumentation issues.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Summer

CSD 852 - Advanced Hearing Science

Credit Hours: 3

Acoustics and physical measures involving the properties of sound as well as psychoacoustics and sound perception.

Prerequisite: admission to Doctor of Audiology program.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 866 - Counseling in Audiology and Speech-Language Pathology

Credit Hours: 2

Various counseling strategies used in clinical practice specific to audiology and speech-language pathology will be discussed. Counseling needs of individuals with hearing loss and/or speech and language disorders and their families will be reviewed.

Prerequisite: admission to graduate program in Department of Communication Sciences and Disorders

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 868 - Amplification Systems I

Credit Hours: 4

Current concepts in amplification for adults and children and assistive listening devices. Evaluation, selection, and fitting of prosthetic devices for the hearing impaired. Relevant calibration and instrumentation issues.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Spring

CSD 870 - Clinical Audiology II**Credit Hours: 4**

Theory and practice of electrophysiological testing for the auditory and vestibular systems. Relevant calibration and instrumentation issues.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Spring

CSD 871 - Amplification Systems II**Credit Hours: 3**

Coverage of recent developments in remediation of communication disorders related to hearing loss in adults and children.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 873 - Educational Audiology**Credit Hours: 3**

This course includes information and strategies students need to work in today's inclusive school environment, functioning as part of a collaborative team, helping develop IFSPs, IEPs and ITPs, supervising audiological screening and conservation programs. It will prepare students to perform the various roles of the educational audiologist, clinician, community liaison service coordinator, supervisor, and advocate. Issues that affect learners with hearing impairment across the lifespan (infant toddlers, elementary and high school students, and college and adult learners) and various regulations related to the delivery of effective educational services (e.g., ADA, IDEA) will be discussed. This course will also include information on the evaluation of, and referral process for, speech and language disorders related to hearing loss.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 874 - Clinical Audiology III

Credit Hours: 3

Discussion of recent advances in audiology and hearing science research which have potential clinical application.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Demand

CSD 875 - Medical Audiology**Credit Hours:** 3

Detailed analysis of the etiology and assessment of common pathologies of the auditory system. Medical intervention and audiologic test battery interpretation discussed.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 876 - Hearing Conservation and Calibration**Credit Hours:** 3

This course will prepare the audiologist to meet industrial needs for sound measurement and hearing conservation. Government standards will be reviewed and applied to industrial settings that fall under OSHA guidelines for hearing conservation. This will include the anatomical and physiological effects of noise on humans; federal standards and damage-risk criteria, the susceptibility and predisposing factors related to industrial noise as well as conducting and reporting a noise survey with a hearing conservation plan. The course will also cover calibration of audiometers and the use of ANSI standards.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

CSD 878 - Professional Issues in Audiology**Credit Hours:** 2

Investigation into current professional issues and ethics in the field of audiology will be covered. Topics will include laws, ethics, current issues, regulations and policies. Emphasis on discussing topics as they relate to the three pillars of Missouri State University's public affairs mission: community engagement, cultural competence, and ethical leadership.

Prerequisite: admission to Doctor of Audiology program.

Lecture Contact Hours: 2

Typically Offered: Spring

CSD 879 - Practice Management and Professional Issues in Audiology

Credit Hours: 3

This course will provide an introduction to audiology practice management. Emphasis is placed on private and clinical practice. Development of a business proposal, relevant laws, current issues, regulations, policies, management and marketing of practices, record maintenance and technology and social media in the workplace will be covered. Investigation into current professional issues and ethics in the field of Audiology including law, regulations and policies.

Lecture Contact Hours: 3

Typically Offered: Spring

CSD 880 - Grand Rounds in Audiology**Credit Hours: 1-2**

Describes in-depth aspects of audiological evaluation, diagnosis and management of routine and complex cases. The course will review cases in which behavioral, electrophysiologic, central, and vestibular testing are necessary to allow differential diagnosis. Each case study will involve the progression of the disorder and audiological/medical manifestations that occur during this period. Discussion involving strategies for (re)habilitation, remediation and management of each auditory disorder will be examined. The latter may include amplification, central auditory processing, counseling and tinnitus management. Case presentations will be obtained from audiology, otology, and neurology journals, text and personal cases. In addition, with respect to aural (re)habilitation, presentations will be made on current trends in amplification management regarding manufacturers' products and their applicability to specific cases. Must be repeated to a minimum of three hours.

Prerequisite: CSD 807 or concurrent enrollment.

Typically Offered: Summer

CSD 884 - Doctoral Project**Credit Hours: 1-6**

In-depth study in an area of Audiology, culminating in a presentation of an extensive scholarly paper. Must be repeated for a minimum of six hours.

Prerequisite: CSD 807 or concurrent enrollment.

Typically Offered: Fall, Spring, Summer

CSD 895 - Advanced Clinical Practice**Credit Hours: 1-6**

Training in audiology, speech and language disorders, and education of the deaf and hard of hearing in clinical, hospital, school, and/or other settings. May be repeated.

Prerequisite: CSD 807 or concurrent enrollment.

Typically Offered: Fall, Spring, Summer

CSD 900 - Professional Preparation for Externship**Credit Hours: 1**

This course will guide students through the process of obtaining a fourth year externship. Construction of a cover letter,

professional resume and interview techniques will be covered. In addition, requirements of the 4th year externship and professional licensure and certification after graduation will be covered.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

CSD 945 - Central Auditory Processing Disorders

Credit Hours: 3

This course describes various aspects of central auditory processing and disorders. Students learn about the underlying processes of auditory processing in the central nervous system. They are provided with a review of several evaluation and remediation approaches used in the management of individuals with central auditory disorders.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall

CSD 972 - Advanced Auditory Re/Habilitation

Credit Hours: 3

Course will include detailed investigation into clinical assessment, treatment techniques, and evaluation of auditory re/habilitation and discussion of the theories and research of language development in individuals with both normal and impaired hearing. Implications for intervention are reviewed and discussed. Various counseling strategies for both adults with hearing loss and families of children with hearing loss will be discussed as they relate to case management. This course included strategies to work in today's inclusive school environment, functioning as part of a collaborative team, helping develop IFSPs, IEPs, and ITPs, supervising screenings and conservation programs.

Prerequisite: CSD 807 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

CSD 996 - Audiology Externship

Credit Hours: 1-9

Professionally supervised practice in auditory assessment and intervention in clinical, hospital, school, and/or other settings. Students enrolled in this course may be required to have a TB test, immunizations, and malpractice insurance. May be repeated.

Prerequisite: CSD 807 or concurrent enrollment.

Typically Offered: Fall, Spring, Summer

CSD 999 - Doctoral Thesis

Credit Hours: 1-6

In-depth research in an area of Audiology, culminating in a presentation and defense of the thesis. Must be repeated for a minimum of six hours.

Prerequisite: CSD 807 or concurrent enrollment.

Typically Offered: Fall, Spring, Summer

Defense and Strategic Studies

DSS 601 - Seminar on Nuclear Strategy and Arms Control

Credit Hours: 3

This seminar examines the development of U.S. nuclear deterrence theory and policy. The seminar will study the strategic nuclear balance, including specific problems and programs, and the strategic doctrine, concepts, and objectives of the nuclear powers. Nuclear arms control, including the processes of decision making and negotiating, will be examined, with an emphasis on comparing theory and practice.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 630 - International Law and Global Security

Credit Hours: 3

This is a survey course designed to introduce students to the core principles and defining features of the international legal system, and to the changing role of international law in contemporary national and global security. Emphasis will be placed on the applicability of international law to armed conflict, counterterrorism, and containing the spread of weapons of mass destruction.

Lecture Contact Hours: 3

Typically Offered: Spring

DSS 631 - International Negotiations

Credit Hours: 3

This course combines the basics of negotiation theory and the examination of select international negotiation case studies with three practical "hands-on" negotiation exercises. It will explore various techniques for diagnosing the structure of a negotiation and identifying potential barriers to agreement. Case studies considered include: Negotiation of 1994 Framework Agreement with North Korea, George Mitchell's mediation in Northern Ireland resulting in the Good Friday Accords, the secret Oslo discussions leading to Israeli recognition of the PLO, The Louisiana Purchase, the Congress of Vienna, the Panama Canal negotiations, and the Egyptian-Israeli Armistice. The course is conducted as a series of interactive seminars including three simulated negotiations.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 632 - Seminar on International Security Affairs

Credit Hours: 3

Examines international and regional security problems and policies from both a regional and global perspective. It treats strategies and security problems from a broader viewpoint than the Seminar on Strategy and Arms Control, covering national interests, alliance relationships, intervention, regional threats, and the security problems of other states, including China and Russia.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 633 - Analysis of International Security Politics

Credit Hours: 3

This course deals with the methods and techniques of collecting and assessing information for use in the study of international security politics, problems, and policies. It explores the measures of relative power among nations and the manner in which such power or lack of it shapes the capability of a nation effectively to act in the international sphere.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 634 - The Geopolitics of Conflict and Accommodation

Credit Hours: 3

The application of the techniques and understanding lent by the geography to the illumination of the physical and social environment in which politics, strategy, and war take place. The relationship among geography, strategy, and politics is studied through the examination of both historical and contemporary circumstances where geography has intruded on politics or politics on geography. Students will be introduced to the geopolitical concepts of sea power, land power and air power, and these concepts will be critiqued in light of recent technological changes in warfare.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 700 - Strategy and U.S. Defense Policy

Credit Hours: 3

This course provides an examination of the basic concepts and issues of strategy, deterrence, defense, and arms control, and an overview of American defense policies, programs, and problems since World War II. Comparative strategic concepts, policies, and objectives are covered. Proliferation and measures of counter-proliferation, including arms control are examined on an introductory basis.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 702 - Seminar on Regional Security Problems

Credit Hours: 3

This seminar provides an advanced and in-depth analysis of selected contemporary regional security problems outside of Western Europe. It focuses on a few critical conflict situations, analyzes threats to regional and to U.S. interests, and examines alternative strategic policies and actions, including military force requirements, for the states involved.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 703 - Science, Technology, and Defense Policy

Credit Hours: 3

This course will cover four broad topics important to advanced work in DSS: basic principles and applications of defense science and technology; such as nuclear weapons effects, ballistic missiles, and strategic defenses; the influence of science and technology on defense programs and policies; the role of the scientific and technical community in defense policy; and current issues of defense science and technology.

Lecture Contact Hours: 3

Typically Offered: Summer

DSS 704 - Arms Control: Theory and Practice

Credit Hours: 3

An examination of contending arms control theories and concepts as tested by postwar and contemporary experience, bilateral and multilateral. There will be in-depth analysis of American and Russian approaches to arms control, as well as consideration of the arms control policies of other states. The course will study scientific and technical problems in arms control, including those of R and D, testing, production, and deployment; arms negotiations, and issues in verification and compliance.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 705 - NATO Security Issues

Credit Hours: 3

After an examination of the history of NATO policies, defense policies, and security issues, emphasis will be placed on analysis of current NATO security problems and options, including specific military defense alternatives. The individual security policies of the U.S., UK, FRG, and France will be studied, along with problems on the northern and southern flanks, and policies for outside-NATO-area security problems. Literature on the future of NATO would be included.

Lecture Contact Hours: 3

Typically Offered: Summer

DSS 706 - Russian Military Strategy

Credit Hours: 3

The first part of this seminar will review and study Soviet military policy, doctrine, strategy, and programs from the 1950s

through the 1980s. It will consider problems of identifying, interpreting, and analyzing Soviet strategic policies and programs - in essence, problems of U.S. intelligence and threat assessment. The second part of the seminar will extend this study to Post-USSR Russia and current directions of Russian strategic policy both for territories of the former USSR and beyond. Particular emphasis will be placed on military reform, continuity and change in military policy, and the status and role of the Russian military forces.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 707 - Seminar on Congress, National Security, and Weapons of Mass Destruction

Credit Hours: 3

Advanced research, study, and analysis of defense programs, policies, and the policy and budget processes, both within the Congress and the Department of Defense. Included also will be the comparative analysis of various studies, analyses, and critiques of U.S. defense programs and plans, and of regional and global WMD capabilities. Department of Defense administration and organization will also be studied.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 708 - Seminar on Contemporary Security Issues in Russia

Credit Hours: 3

This seminar addresses on an advanced level current developments in Russia and other states of the former Soviet Union as they bear on issues of national and international security and on U.S. security policy-making. The approach will combine analysis of internal developments related to military power and policy, and of evolving international policies, with strategic and geopolitical analysis.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 709 - Seminar on Space Policy and Security

Credit Hours: 3

This course examines the extent to which spacepower doctrine, concepts, and operations influence national security strategy and international security. It identifies key space policy issues facing the United States and places them in the larger context of technological advances and a changing international strategic environment. The course will briefly examine the historical and policy foundations for the U.S. and international space programs and activities, including space policy evolution and international space law and treaties. It will then address current issues facing U.S. space programs, including efforts to reorganize national security space activities, and current international efforts to develop "rules of the road" for space activities. The course will also address strategic choices facing other nations in space capabilities, including continued dependence on U.S., European, and Russian space capabilities, developing indigenous space programs, and reliance on commercial space capabilities. Conflicts over dual-use technologies, such as space launch, remote sensing, satellite navigation, and communications, will be examined for their implications for such topics as spectrum management, and more broadly, for international security. Students will have an opportunity to apply insights gained from their readings and class discussion in a future wargame that includes both space and terrestrial crises and involves student team of players.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 710 - Seminar on International Terrorism and Security

Credit Hours: 3

This seminar will attempt to define and examine security issues related to terrorism and low-intensity conflict today. The origins of modern terrorism will be explored and terrorism will be put in the context of a strategy to achieve political ends. Case studies of terrorism in various regions, e.g., the Middle East, Europe and the United States, will show some of the current empirical evidence of global terrorist activities. The impact terrorism has on liberal societies and their ability to defend themselves will be examined in the context of counterterrorism strategies.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 711 - The Rise of the United States to Preeminence

Credit Hours: 3

This course will discuss the political development of the United States and its rise to great power, and then superpower status. Students will study a number of major U.S. wars and the political circumstances surrounding those conflicts. The course will address why the United States successfully developed into a world power and how its grand strategy changed over time. It will ask what lessons today's strategists can draw from the experiences of their predecessors.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 712 - American National Security Policy

Credit Hours: 3

This course evaluates the major actors and components of American national security policy. America's traditional national interests are studied--accenting World War II, the Cold War, and the present day. The course also addresses the circumstances of major foreign policy crises, such as the Cuban Missile Crisis, and the causes of successful and unsuccessful American interventions during the Cold War and after. Additionally, it considers America's foreign and defense policy in the post-Cold War world, and particular emphasis is placed on American policies toward other great powers such as China, Japan, and Russia, as well as in contemporary foreign and defense policy crises such as the war on terrorism.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 713 - Intelligence, Counterintelligence, and Covert Action

Credit Hours: 3

This course examines the role of intelligence and counterintelligence in the formulation and execution of state national security policies in democratic governments, and the impact of intelligence operations on international relations. The intelligence process

is examined including the problems and opportunities associated with targeting or the tasking of intelligence agencies, the media of intelligence collection, the difficulties of analysis and evaluation, and counterintelligence. Additionally, covert action and paramilitary activities are studied with emphasis on the manner by which successes and failures have influenced military and foreign policy outcomes.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 714 - Seminar on Strategic Thought

Credit Hours: 3

There is a rich literature on strategy and warfare, and even the oldest surviving works on strategy are arguably relevant to contemporary political leaders. This course will examine the ideas of strategic thinkers who lived in historical periods ranging from the ancient world to the present. Students will read works by (and in some cases, about) such figures as Sun Tzu, Niccolò Machiavelli, Napoleon Bonaparte, Baron Antoine Henri de Jomini, Carl von Clausewitz, Thucydides, Thomas Schelling, and Herman Kahn. Students will discuss how these thinkers have influenced strategic studies, and how military-strategic thought has developed over time.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 715 - Grand Strategy

Credit Hours: 3

This seminar examines the role of grand strategy in international security. Emphasis is placed on the nature and role of grand strategy, and the major systemic and domestic factors that influence grand strategy. The nature of grand strategy will be introduced historically, and the grand strategies of the major world powers prior to and during World Wars I and II, the Cold War, and post-Cold War period, will be studied.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 716 - Understanding Military Operations

Credit Hours: 3

This seminar delineates selected past, current, and future sea, air, space, and land conflicts into their constituent parts in order to examine the interaction of political objectives and military doctrine. It will specifically seek to explore how the political objectives and military doctrine influence technological development and military innovation. To meet these objectives, the seminar will examine a variety of international political and doctrinal problems that have had a major impact on American national security policy.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 717 - Small Wars, Imperial Conflicts, and Guerrilla Warfare

Credit Hours: 3

This seminar examines some of the many forms of warfare that differ from "symmetrical" conflicts between great powers, with special attention to how great powers fight such wars and why they succeed or fail in bringing them to a satisfactory conclusion. Students will read a variety of literature written by authors such as C. E. Calwell, Victor Davis Hanson, and Colin Gray, as well as insurgents such as Che Guevara. The class will include a number of historical case studies, with an emphasis on the nineteenth, twentieth, and twenty-first centuries.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 718 - Causes of War**Credit Hours:** 3

This seminar explores the causes of warfare through the lens of human evolution, psychological approaches, economic system, ideology, and the international system, with the intention of understanding the strengths and limitations of each level of analysis. From that foundation, the seminar applies each level of analysis to the study of the origins of particularly significant wars: the Peloponnesian, Crimean, Seven Years', Korean, and Vietnam Wars, as well as World War I and World War II.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 719 - Strategic Culture**Credit Hours:** 3

Provides an introduction to using strategic culture as an analytical approach to understanding the cultural, religious, historical, and leadership sources of state and non-state actor behavior, with special reference to issues related to weapons of mass destruction. The concept of strategic culture captures domestic sources of state behavior, and offers an alternative or supplemental explanatory framework to the prevailing realist and constructionist theories of international relations. Examines the cultural context for applying theories of deterrence and dissuasion, and will involve a survey of thinking and analysis on strategic culture. from both theoretical and policy perspectives, as well as an exposure to the framework and methodology of strategic cultural analysis. Several key strategic cultures will serve as case studies.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 720 - Internship Training in DSS Policy**Credit Hours:** 3

Internship experience and training in defense and arms control policy making with a U.S. Government department or agency, a Washington, D.C., based defense policy research institute, or institution of comparable professional experience, including preparation of a written report or research paper based upon the internship. Graded Pass/Not Pass only.

Prerequisite: permission of instructor and acceptance by employer.

Typically Offered: Fall, Spring, Summer

DSS 721 - Missile Defense, Proliferation and Contemporary Warfare

Credit Hours: 3

Examines the role of missile defense in the national security policies, programs, and military doctrines of the United States. Emphasis on exploring the evolution of missile defense within the broader context of contemporary American deterrence and defense policy.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 722 - Emerging Strategic Challenges

Credit Hours: 3

For the purpose of this seminar, strategic challenges are defined as those emerging trends or security threats--political, economic, or military--that could fundamentally alter the present pattern of interstate relations or the core principles of U.S. foreign and defense policy. Examples include a possible cascade of proliferation resulting in 20 or 30 nuclear-armed states, a single terrorist with a nuclear weapon, or a resurgent Russia or ascendant China rising to a level of a peer competitor of the United States. Seminar reading and discussions will focus on: 1) Examining the causes, effects, and responses to these potential strategic challenges, especially the spread of weapons of mass destruction to state and non-state actors, both terrorists and enablers such as the A.Q. Kahn network; 2) Assessing assumptions, policies and capabilities for dealing with these challenges and how the concept of dissuasion, deterrence, and defense must adapt to the new security environment; and 3) Exploring how best to hedge against strategic uncertainties and how best to shape the future of the nuclear enterprise to promote the expansion of nuclear energy globally while reducing the risks of proliferation.

Lecture Contact Hours: 3

Typically Offered: Fall

DSS 723 - Counterproliferation

Credit Hours: 3

Explores the challenges posed by nuclear and biological weapons in the hands of state and non-state actors. Students will investigate why various actors pursue these weapons, why some give them up, why others refuse to give them up, and the assorted instruments of national power that may be employed in the development of a national strategy to combat these weapons. Students will consider both the national security and homeland security aspects of these challenges. The subject matter will provide a vehicle for refining critical analytical skills; both verbal and written. The course will stress the refinement of each student's analytical and problem solving abilities as part of their development as national security strategists.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 724 - Leadership in National Security Policy

Credit Hours: 3

Addresses the issue of national security policy leadership. Students will investigate the critical topics, including the components of good leadership, and the consequences of leadership failures. Speakers from the national security community will participate

in order to explain the leadership challenges they faced in their careers. The subject matter will provide a vehicle for refining student leadership skills as part of their development as national security strategists.

Lecture Contact Hours: 3

Typically Offered: Spring

DSS 725 - Seminar on Instruments of State Power

Credit Hours: 3

Instruments of state power encompass a broad range of tools--diplomatic, economic, intelligence, scientific and military--at the disposal of the state in the formulation and implementation of national security policy. Understanding the foundations, applications, and integration of these instruments is essential for the successful practitioner or scholar of security affairs. This seminar will focus on the individual instruments of U.S. power and their interrelationships in the conduct of foreign and defense policy. The class will employ case studies to assess the role of these instruments and the success and failure of their application.

Lecture Contact Hours: 3

Typically Offered: Spring

DSS 726 - Chinese Military Power

Credit Hours: 3

This course focuses on the rising military power of China (its motivation and implications), Chinese objectives in Asia and their relationship to its military buildup, the impact of the Chinese military buildup on the military and deterrence requirements of the United States and our Asia Allies, the prospect and outcome of a military confrontation between China and Taiwan, including potential involvement of the United States and, in light of the potentially catastrophic consequences of a major war in the Far East, issues relating to the deterrence of China. The focus of the course will be on relatively recent developments--1990 to the present because of the dramatic shift in Chinese military capabilities, doctrine and objectives during this period.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 727 - Chemical and Biological Warfare: Global and Community Perspectives

Credit Hours: 3

This course will help the student develop a global perspective on factors that may lead to the development and deployment of weapons of mass destruction, specifically the chemical and biological warfare agents. The introduction will consist of a history of the use of chemical and biological warfare, both on the traditional and the asymmetric battle fields. The biology and toxicology of the agents will be presented at a basic level sufficient to understand the development of use of countermeasures. Community preparedness in the form of immunizations, prophylaxis, and facility hardening will be addressed, followed by presentations on community risk analysis, response planning and decontamination of personnel and facilities. Class discussions will include (1) the role different national agencies (DoD, Homeland Security, state governments, etc.) play in protecting the populace (2) the effectiveness of recent homeland security efforts toward protecting communities from the effects of chemical and biological warfare agents (3) and global developments in religion and politics which impact the potential use of chemical and biological warfare, including globalism and jihadism.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

DSS 728 - Terrorism: Advanced Research Topics

Credit Hours: 3

An intense, research-based exploration of terrorism problems, patterns, and trends as these confront societies and governments in key regions of the globe, especially North America, Latin America, Western Europe and the Maghreb.

Prerequisite: DSS 710 and permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 730 - Cyber Conflict and International Security

Credit Hours: 3

This course addresses emerging international relations, policy, doctrine, strategy, and operational issues associated with Computer Network Attack (CNA), Computer Network Defense (CND), and Computer Network Exploitation (CNE)--collectively referred to as cyber warfare. It provides students with a comprehensive perspective and enhances their knowledge of cyber warfare conducted by both state and non-state actors.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

DSS 733 - US Intelligence in an Increasingly Dynamic World

Credit Hours: 3

This course assesses how specific contemporary cultural and technological issues affect the United States intelligence community and its mission to support US policymakers and war fighters. Specific attention will be paid to the evolving role of intelligence analysis, the consequences of intelligence failures, and the stewardship of an apolitical intelligence apparatus in a politically-charged policy environment. This class will seek to improve the understanding of the US intelligence community through comparative studies of foreign intelligence services, including their contrasting cultural foundations and ethical norms. Students also will examine specific technological advances, focusing on national security threats, intelligence opportunities, and associated ethical questions for our society.

Prerequisite: DSS 713.

Lecture Contact Hours: 3

Typically Offered: Spring

DSS 737 - Advanced Studies in Chemical and Biological Warfare

Credit Hours: 3

This course builds on elements of DSS 727, Chemical and Biological Warfare: Global and Community Perspectives. The purpose of the course is to allow the student an opportunity to delve more deeply into a specific aspect of the field that is of great interest to the student. Subjects that were covered in the earlier course that might be considered for in-depth review include

decontamination, pertinent treaties and conventions, weapons monitoring, dangers presented by industrial chemicals, and historical analysis of the use of chemical/biological weapons. Additional topics that might be considered are the natural epidemiology of diseases like tularemia, plague or anthrax, or risk assessments for potential chemical/biological weapons used by specific nations or sub-national groups. Each student will choose a separate subject to explore.

Prerequisite: DSS 727.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 740 - Ethics of Weapons of Mass Destruction

Credit Hours: 3

This seminar examines the wide-ranging moral issues associated with weapons of mass destruction (WMD). It highlights the key moral dilemmas associated with the decision to develop, acquire, maintain, employ, or dispose of WMD. It situates WMD moral discourse in the context of both standard ethical paradigms pertaining to the conduct of individuals in society as well as those paradigms associated with the regulation of violence in armed conflict, in both their theoretical and practical dimensions.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 745 - Intelligence and War

Credit Hours: 3

Intelligence long has been a core component of wars. This course will examine the role of intelligence in preparing national military strategies and armed forces prior to armed conflicts, use of deception to produce surprise attacks that often initiate hostilities, the role of intelligence in supporting conventional military operations of states and coalitions, the intelligence activities of insurgent and terrorist groups, intelligence-informed counterinsurgency operations of states, and the use of intelligence by the United Nations in peace operations. It will describe and assess a wide range of civilian and military organizations that produce and consume war-related intelligence, and it will examine factors that drive the performance of intelligence in war, including challenges of collection, analysis, counterintelligence, and the interactions of intelligence organizations with senior political and military leaders. The course will examine examples of successful and unsuccessful intelligence support to military operations and national war-related policymaking, including case studies of the intelligence activities of many countries and non-state actors from World War II to the contemporary role of intelligence in the Russia-Ukraine war.

Lecture Contact Hours: 3

Typically Offered: Spring

DSS 747 - Educational Wargaming

Credit Hours: 3

This seminar provides an emphasis on and examination to applied research methodologies specifically discoverable from educational wargaming techniques. Students will be introduced to concepts including but not limited to scenario planning, strategic thinking, foresight, and environmental scanning. The foundational premise of this course is enhanced academic rigor in the development of critical thinking practices students can apply to their professional field.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 750 - Security Challenges in the Americas

Credit Hours: 3

This seminar addresses contemporary security and defense challenges throughout Latin America and the Caribbean region, focusing on policy options and choices relative to US interests. Online discussions and chat sessions will apply theoretical concepts in international security, the policy-making process and roles of key actors, as well as strategic analysis to assess the struggle between traditional political institutions and dynamic entities that challenge legitimate state actions. In this clash, traditional actors seek to enforce the rule of law, while their opponents employ organized and political violence as strategies to achieve their objectives.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 794 - Active In Research

Credit Hours: 0

Students who have completed all coursework and are only working on their research component may register for this course. The course is assessed a \$600 supplemental course fee and allows the following: access to the library including online services, access to computer services and Missouri State email, and scheduled meetings and access to DSS professors. Course is for zero credit hours and is graded "P" (pass) or "W" (student discontinues participation in the course and is dropped from the course).

Typically Offered: Fall, Spring, Summer

DSS 795 - Seminar: CWMD Graduate Fellows Colloquium

Credit Hours: 3

This is the capstone course of the National Defense University (NDU) CWMD Fellowship Program. Its purpose is to provide (NDU) CWMD Fellows occasion to: interact with other CWMD Fellows at the classified level; reflect upon and synthesize broad themes encountered in program coursework; appreciate the complexities associated with DoD's CWMD challenges in an interagency context; and acquire unique professional tools that will facilitate their success as CWMD practitioners in the United States government.

Prerequisite: permission of instructor and active US security clearance.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

DSS 796 - Directed Reading and Research in Defense and Strategic Studies

Credit Hours: 3-9

Individually tailored directed readings or research for bibliographical purposes; for improvement of research skills; for the purposes of a broader background of knowledge (e.g., in areas not covered by seminars, such as classical writings on strategy, and on the art of warfare historically or in the American experience); for more depth in selected areas of specialization; and/or to

help meet the non-thesis MS degree research requirement. May be repeated to a maximum of nine hours toward degree.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

DSS 797 - Special Topics

Credit Hours: 3-6

Special topics may be offered as specific important issues, which are not adequately covered by regular seminars, arise; when Distinguished Guest seminars and work-shops can be planned ahead of time; or when visiting faculty wish to offer specialized courses not in the curriculum. May be repeated to a maximum of six hours, as topics change.

Typically Offered: Demand

DSS 798 - Seminar on Contemporary Defense Issues

Credit Hours: 3

This seminar will address important contemporary defense and international security issues and may be offered to develop areas of study that are insufficiently covered by regular seminars, or when distinguished guest faculty or speakers wish to offer a specialized seminar not provided by the curriculum. May be repeated to a maximum of six hours, as topics change.

Lecture Contact Hours: 3

Typically Offered: Demand

DSS 799 - Thesis

Credit Hours: 3

Independent research and study connected with preparation of thesis. Graded Pass/Not Pass only.

Prerequisite: completion of DSS course requirements for MS degree (30 hours minimum).

Typically Offered: Fall, Spring, Summer

DSS 801 - Advanced Nuclear Strategy, Deterrence and Arms Control

Credit Hours: 3

It is always safer and cheaper to deter a war rather than to wage war. However, as a practitioner of strategy, one must understand the theory of deterrence before one can begin to apply a strategy of deterrence. Today's strategists are working in a dynamic and multipolar environment. They will need to devise various and flexible approaches of deterrence across the strategic spectrum; adapting to diverse opponents, threatscape, and milieus. This course explores deterrence theory, doctrine, strategy, and application across a spectrum of environments. It provides students with a practitioner's perspective of nuclear deterrence and cross-domain deterrence in the 21st century and enhances their knowledge of deterrence theory and application from the nation-state perspective. Finally, this course will expose students to [national] grand strategy development as well as deterrence theory methodology and application in various domains and environments to include nuclear deterrence, deterrence in space and cyberspace, and deterrence of rogue states and terrorist organizations. This course will explore these and other issues related to deterrence and national security in the 21st century. It is meant to present the complex topic of "deterrence theory." Students are encouraged to consider the spectrum of alternative points of view reviewed in the course material. The first block will introduce the basics of deterrence and the concept of nuclear deterrence. The second block will explore 21st century deterrence methods

through the kaleidoscope of threats and environments to include nuclear, outer space, cyberspace, terrorism, conventional forces, and diplomacy. In the final block, students will apply 21st century deterrence theory by crafting and presenting a short opinion paper, gaming deterrence and escalation control strategy, and garnering the perspective of deterrence thinkers and doers. During this course, students will gain and demonstrate an understanding of: 1) the Ends-Ways-Means of nation-state deterrence strategy; 2) the characteristics and methods of deterrence across the operational spectrum; 3) the evolution of nuclear deterrence and the strategic triad; 4) the methods and potential impact of adversary deterrence, how deterrence can fail, and the consequences of deterrence failure.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 832 - Advanced Survey and Writing in International Security Affairs

Credit Hours: 3

This is a required course for doctoral students. It is strongly recommended that doctoral students take DSS 832 during their first or second semester in the doctoral program. This course provides an overview of developments in the realm of international security since the end of the Cold War. It seeks to equip the students with an understanding of key issues in contemporary international security and enhance their ability to analyze these issues using various theoretical and empirical tools. It also seeks to strengthen student writing and briefing skills, with a particular focus on the particular style of professional writing and briefing most useful for students intending to advance their careers in government service or other professional positions in the field. This doctoral-level course will review key issues in contemporary international relations, including: the causes of war; the return of great power competition since the end of the Cold War; security issues in regional theaters, including Asia, Europe, the Middle East and South America; efforts to combat weapons of mass destruction, terrorism and proliferation; arms control, etc. Students will have an opportunity to practice and perfect their analytic and writing skills in these subject areas. In dedicated "Writing Skills Seminars," the writing instructor will review best practices and highlight skills that can help students to become more efficient and effective writers and briefers. These seminars will cover the most common formats and key components of written communications and briefings on national-security issues. The writing instructor also will offer 1:1 writing tutorials to each student, dedicated to improving early drafts of their course papers. A key goal of the writing and briefing portions of the course are to help students strengthen their writing and briefing skills prior to undertaking their Professional Doctoral Capstone Project.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

DSS 840 - Seminar on National Security Strategies

Credit Hours: 3

This seminar focuses on the development and implementation of national security strategies. It is comprised of three components: The first examines the strategies of each successive presidential administration from the end of the cold war to the present. The emphasis will be on the perspectives of the principal practitioners: how they viewed the central geopolitical circumstances at the time; how they viewed the key national security challenges; what national level goals they pursued; and what tools of statecraft they emphasized in meeting the strategic challenges they faced. The second component focuses on the strategic challenges of the contemporary international and global security environment. These include the proliferation of weapons of mass destruction, the reemergence of peer nation adversaries, and the spread of dual-use, advanced technologies that have, in some instances, produced new threats to American interests such as in the cyber and biological realms. Strategies pursued by the current and previous administrations for dealing with these challenges will be examined and assessed. The third component consists of original research by each student on a strategic challenge of his/her choice (which can range from climate change to global pandemics) with the goal of developing a strategy, along with an integrated set of instruments, to respond to the challenge. Students will present their strategy in class for comment by their classmates who will be asked to provide their assessment of the feasibility of implementation and the prospects for success.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

DSS 896 - Doctoral Capstone Project: Advanced Tutorial Course on Deterrence Theory and Policy

Credit Hours: 3

This course is intended for doctoral students. It is an advanced tutorial that involves, reading, research and writing with a selected professor. The purpose of the course is to help guide and prepare the doctoral student throughout the process of the student's Professional Doctoral Capstone Project, from its beginning to the final presentation before the student's Doctoral Committee. This course is individually tailored by the doctoral student and a selected professor for this purpose. It is the responsibility of the student to request that a particular professor serve in this capacity; DSS will not select the professor for the student. The selected professor and student will agree on the specific national security issue to be addressed by the student, and they will work together to the completion of the Doctoral Capstone Project over the course of two semesters of DSS 896. The selected professor will serve as the Chairperson of the student's three-person Doctoral Committee. DSS 896 will be repeated twice, for a minimum and maximum of 6 hours credit toward meeting the doctoral degree requirements. It is strongly recommended that doctoral students take DSS 896 during the final two semesters of their doctoral program, and that the student request the participation of the professor during the prior semester.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

Dietetics and Nutrition

DTN 740 - Medical Nutrition Therapy I Practicum

Credit Hours: 3

This is the first of a two-semester course sequence providing 192 hours of field experience in patient/client nutritional management at various sites under professional supervision. Emphasis will be on utilizing the nutrition care process in providing basic medical nutrition therapy to include at least diabetes, heart disease, lung disease and basic health promotion in an acute or clinical setting.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the graduate Dietetic Internship Certificate Program.

Typically Offered: Demand

DTN 741 - Medical Nutrition Therapy II Practicum

Credit Hours: 3

This is the second of a two-semester course sequence providing 320 hours of field experience in patient/client nutritional management at various sites under professional supervision. Emphasis will be on utilizing the nutrition care process in providing medical nutrition therapy to include at least tube feeding, TPN, pre/post surgery patients in an acute or clinical setting with a research component required as part of the practicum.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the graduate Dietetic Internship

Certificate Program.

Typically Offered: Demand

DTN 742 - Population Health Nutrition Practicum

Credit Hours: 3

This course provides a 192 hour field experience in the delivery of population health and community nutrition programs at local, state, national levels at various sites under professional supervision. Current issues relating to nutrition promotion and preventive health care will be examined. Students will evaluate nutrition components of various community health agencies and participate in the delivery of services.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the graduate Dietetic Internship Certificate Program.

Typically Offered: Demand

DTN 743 - Food Service Management Practicum

Credit Hours: 2

This course provides a 160 hour field experience practicing a systems approach to nutrition services management, including the human dimensions of management, management tools and techniques for assessing accountability, cost containment, productivity and marketing plans.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the graduate Dietetic Internship Certificate Program.

Typically Offered: Demand

DTN 744 - Practicum in Area of Concentration

Credit Hours: 2

This course provides a minimum of 200 hours in either Population Health, Public Affairs or Rural Health. Field placements and experiences will be developed with each student and the program director.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the graduate Dietetic Internship Certificate Program.

Typically Offered: Demand

DTN 745 - Topics and Issues in Dietetics

Credit Hours: 1

This course provides a six week forum (3 hours per week) for topics pertinent to the practice setting and transition to professional practice. Topics of interest will cover areas such as managed health care, ethical decision-making, registration examination, charting, etc. May be repeated to a maximum of three hours.

Prerequisite: admission to the graduate Dietetic Internship Certificate Program.

Typically Offered: Demand

DTN 750 - Advanced Medical Nutrition Therapy

Credit Hours: 1

Advanced study of metabolic demands in complex disease processes using the Nutrition Care Process in an evidence based approach to altered nutritional needs.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or graduate Dietetic Internship certificate program.

Lecture Contact Hours: 1

Typically Offered: Fall

DTN 752 - Advanced Population Health Nutrition I**Credit Hours: 1**

Advanced population health information in preparation for the registered dietitian examination, including review of basic community information. Overview of interpretation of census data and assessing disparities within the population. Other topics include: nutrition public policy, local and global food insecurity, and population health determinants with an emphasis in rural communities.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or graduate Dietetic Internship certificate program.

Lecture Contact Hours: 1

Typically Offered: Fall

DTN 753 - Advanced Foodservice Management**Credit Hours: 1**

Project and research based application of management concepts and skills to deliver food to people in various settings including schools and hospitals. In addition, review of basic foodservice management concepts and knowledge to include foodservice systems, menu planning, sustainability, and quality improvement.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or graduate Dietetic Internship Certificate Program.

Lecture Contact Hours: 1

Typically Offered: Fall

DTN 755 - Advanced Nutrition Counseling**Credit Hours: 1**

Advanced counseling techniques, nutrition interventions, and behavior change theories applied to nutrition counseling. Emphasis on motivational interviewing, including application in practice to provide the learner with strategies and counseling skills to promote behavior change in patients/clients.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program.

Typically Offered: Summer

DTN 762 - Advanced Population Health Nutrition II

Credit Hours: 2

Course designed as a continuation of DTN 752 to further analyze population health disparities and to develop and implement community programs/policy strategies. Graduate students will be actively involved in developing strategies for implementation based on community needs assessment. This course will include both didactic and experiential components where much of the framework for student learning and evaluation will take place in partnership with community nutrition practitioners.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program.

Lecture Contact Hours: 2

Typically Offered: Demand

DTN 770 - Leadership in Nutrition and Dietetics**Credit Hours: 2**

Examination of key leadership theories and application of theory to various nutrition and dietetics contexts. Emphasis on diversity and inclusive leadership while focusing on skill development using self-assessments and learning projects, in addition to preparing for the credentialing examination in nutrition and dietetics.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program or the Dietetic Internship Graduate Certificate program.

Lecture Contact Hours: 2

Typically Offered: Spring

DTN 797 - Non-thesis Project**Credit Hours: 1-3**

In-depth scientific study of a nutrition and dietetics problem of interest that culminates in a scholarly paper and formal community or professional presentation. Student must have research project proposal approved by faculty supervisor and program director prior to enrollment. Must be repeated for a total of three hours. Graded Pass/Not Pass only.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program.

Typically Offered: Demand

DTN 799 - Thesis**Credit Hours: 1-6**

Demonstration of the capacity for research and independent thought culminating in a thesis. May be repeated to a maximum of six hours. Graded Pass/Not Pass only.

Prerequisite: admission to the Master of Science in Nutrition and Dietetics program.

Typically Offered: Demand

Digital Fashion Merchandising**DFM 682 - Graduate Seminar in Digital Fashion Merchandising**

Credit Hours: 2

Selected topics in clothing and textiles that involve the areas of apparel manufacturing, fashion merchandising, and management trends are systematically explored through critical analysis of literature and through an individual research project. May be repeated for credit. A maximum of four hours may be applied to a degree program.

Prerequisite: 12 hours of graduate credit.

Lecture Contact Hours: 2

Typically Offered: Spring

Educational Administration

EAD 751 - Foundations of Educational Leadership

Credit Hours: 3

An introductory course designed for the student considering a career in educational leadership. Explores the history, basic theories, and major areas of responsibility in school leadership. EAD 751 is the first course to be taken in an administration degree program.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 759 - Leadership Capstone

Credit Hours: 3

The culminating course in the Educational Administration master's degree programs. The course results in the completion of the student's research major project; preparation and presentation of the student's graduation portfolio; and completion of school assessments.

Prerequisite: EAD 788 or SFR 780.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 768 - K-12 Principalship

Credit Hours: 3

This course is an examination of the leadership responsibilities of the K-12 school principal for certification K-8 and 7-12. Instructional leadership, decision-making, problem solving, effective schools correlates, data analysis, accountability, the change process, school culture, diversity, and school improvement concepts will be emphasized.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EAD 769 - Curriculum Leadership for K-12 Principals

Credit Hours: 3

This course is designed for future K-12 principals for the study of K-12 education program development, administration and supervision in accordance with the goals and outcomes as outlined by the Professional Standards for Educational Leaders (PSEL), the Leadership Developmental System (LDS), the Missouri Leader Standards as well as the EAD Knowledge Base. The course provides a broad overview of the essential elements of K-12 educational programs including curriculum, instruction, materials, and program evaluation recommended by the various learned societies for educational administration.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EAD 780 - Administration of Instructional Programs**Credit Hours: 3**

An analysis of instructional programs and the role of the school administrator in developing learner-centered school cultures and supporting research-based instruction.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 781 - Organizational Management**Credit Hours: 3**

Emphasis is on basic administrative skills including fiscal management and building utilization as well as the skills and processes needed to collaboratively develop and maintain strategic plans.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 784 - Multicultural Issues Involving Human Relations and Collaborative Processes**Credit Hours: 3**

Designed to develop skills in effective interpersonal skills, written and oral communication within a diverse cultural community.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 785 - Legal and Ethical Contexts of Schooling**Credit Hours: 3**

Explores the statutory and regulatory requirements as well as the ethical implications of policy initiatives inherent in the effective operation of a school.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 786 - School Supervision and Performance Enhancement

Credit Hours: 3

Administrative functions related to human resource management and development as well as enhancing the performance of the instructional personnel. (i.e. recruitment, selection, retention, training, supervision, evaluation of staff.)

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 787 - Administration of Special Programs

Credit Hours: 3

Designed to provide skills to establish, administer, and supervise special education services and other student programs. Programs in the area of special education, guidance, vocational education, early childhood as well as current state and federal programs affecting education are emphasized.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 788 - Action Research in Educational Leadership

Credit Hours: 3

Introduction to the research designs and analysis techniques of action research. Student will engage in activities designed to examine current best practices in the school setting through a methodical, research-based orientation with the ultimate goal of assessing the effect of innovative practices on a variety of school variables.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 790 - K-12 Principal Internship Onsite-Part 1

Credit Hours: 1

Course is designed to allow students an opportunity to apply knowledge and understanding gained from program coursework to the field. The intent of this internship is to create an opportunity for students to experience leadership roles in a supervised, reflective school environment. During the internship, students are required to document internship hours 300 (150 hours/semester) to meet DESE requirements for certification. Part 1 of the internship has a minimum of 150 hours of leadership/activity experience. May be repeated to a maximum of five hours.

Typically Offered: Fall, Spring

EAD 791 - K-12 Principal Internship Onsite-Part 2

Credit Hours: 1

Course is designed to allow students an opportunity to continue to apply knowledge and understanding gained from program coursework to the field. The intent of this internship is to create an opportunity for students to experience leadership roles in a supervised, reflective school environment. By the end of Part 1 and Part 2 internship experiences, students must have documented 300 hours total (150 hours/semester) to meet DESE requirements for certification. May be repeated to a maximum of five hours.

Typically Offered: Fall, Spring

EAD 792 - K-12 Principal Internship-Related Agencies**Credit Hours: 1**

Course requires students to study and interact with community/regional and state agencies that relate to the school administrator or supervisor (i.e. juvenile court, law enforcement, community support services). Students may accumulate hours during this internship to count toward their total hours for EAD 790 K-12 Principal Internship Onsite-Part 1 and EAD 791 K-12 Principal Internship Onsite-Part 2. May be repeated to a maximum of five hours.

Typically Offered: Fall, Spring

EAD 793 - K-12 Principal Internship-Part 3**Credit Hours: 1**

This internship course is designed for those students who have earned a master's degree in Educational Administration but do not have K-12 building level certification. The intent of this internship is to create an opportunity for students to experience leadership roles in a supervised, reflective school environment. During the internship, students are required to participate in and document 50 additional internship hours in either an elementary or secondary school (depending on the area needed for certification) in order to meet DESE requirements for K-12 certification. May be repeated to a maximum of five hours.

Prerequisite: master's degree in Educational Administration without K-12 building level certification (as required by DESE).

Typically Offered: Fall, Spring

EAD 799 - Thesis**Credit Hours: 1-6**

Independent research and study connected with preparation of thesis. May be repeated to a maximum of six hours.

Prerequisite: EAD 788 and SFR 780.

Typically Offered: Demand

EAD 841 - Advanced Issues in School Improvement**Credit Hours: 3**

Designed as an advanced level course for the study of barriers to learning, strategies to reduce or eliminate those barriers, stakeholder involvement, advanced strategic planning techniques and program development, in accordance with the goals and outcomes of the I.S.L.L.C. standards and the EAD Knowledge Base. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other I.S.L.L.C.

member states. The course provides an opportunity for students to identify significant barriers to learning within an educational setting, analyze the conditions of the educational setting and take specific steps to eliminate the barriers and support student success.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 842 - Modern Trends in Educational Administration

Credit Hours: 3

Designed as an advanced level course for the study of the larger contexts of education. Students will study state, multi-state and national trends/issues, analyze their effect upon local school programming and student learning, identify appropriate outside agencies for initiating collaborative relationships as well as identify adaptive leadership behaviors to respond to various trends/issues. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other LSLLC member states. These goals and outcomes are based upon ISLLC standards as well as the EAD Knowledge Base.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 843 - School and Community Partnerships

Credit Hours: 3

Designed as an advanced level course for the study of establishing, nurturing and sustaining effective school-community partnership programs. Students will be exposed to content and will generate material that demonstrates the ability to develop partnerships with business, higher education and other community groups which supplements the learning environment and supports the overall mission of the school as outlined by goals and objectives of the ISLLC standards as well as the EAD Knowledge Base. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the initial administrator certificate in the state of Missouri and other LSLLC member states. The course provides a broad overview of the essential elements of educational partnership programs while working with social agencies and elementary grant writing.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 844 - Leadership in Professional Development

Credit Hours: 3

Designed as an advanced level course for the study of enhancing professional performance through effective staff development and performance enhancement efforts. Students will demonstrate the ability to collaborate professionally with staff to enhance performance and promote successful teaching and learning in accordance with the goals and outcomes as outlined by ISLLC standards as well as the EAD Knowledge Base. The course provides a broad overview of advanced elements of supervision including national teaching standards, adult learning theory, effective staff development and use of data to inform professional development efforts. The major focus of this course is to provide the skills and knowledge appropriate to assisting the student in developing artifacts necessary for completion of his/her professional portfolio. This portfolio is needed for the renewal of the

initial administrator certificate in the state of Missouri and other LSLLC member states.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 850 - Politics of Education

Credit Hours: 3

Overview of the origins and the nature and impact of political forces surrounding and influencing schools. Students will study the increasingly complex political web of American education as well as research the continuing debate dealing with local control versus the expanding role of state and federal government. This course will help the student in educational administration analyze the various core constituencies of school politics, analyze the issues/demands made in the school community, and study the intervening variables associated with school issues as well as the decisions which must be made by school policy makers.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 858 - School Personnel

Credit Hours: 3

This course will provide knowledge related to areas of personnel process such as: human resource planning, recruitment, selection, placement, induction, staff development, appraisal, compensation, negotiation, employment conditions, employee data, support staff, empowerment of staff, policies and procedures, and career paths.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 860 - Field Study

Credit Hours: 1-4

This course involves the completion of field projects conducted in cooperation with a public school district or appropriate agency. Requires a formal investigation and survey of a recognized problem within a selected institution. The nature of the investigation may also be in-depth, independent research relevant to current practice in any facet of the educational process. The subject for investigation is selected by the student with approval of the advisory committee. An oral review of the project will be presented to a selected faculty committee. May be repeated to a maximum of six hours. A maximum of three hours may be counted toward degree.

Prerequisite: EAD 895.

Typically Offered: Demand

EAD 861 - Human Relations

Credit Hours: 3

Designed to upgrade educational leaders in human relations skills. Major focus will be on effective group processing and dynamics, understanding learning styles and cultural diversity issues, and facilitating skills for school improvement.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 862 - The Superintendency

Credit Hours: 3

Analysis and discussion relating to current problems of school management involving decision making, data processing, operations, research, work and wages, unions and management, and purchasing.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 863 - Curriculum Design and Evaluation

Credit Hours: 3

A course designed to investigate and analyze current and innovative instructional programs. Special emphasis is given to national reports on educational practices and the development of a model school of the future.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 864 - Diversity and Community Relations

Credit Hours: 3

An examination of the various strategies involved in establishing effective internal and external communications. The responsibilities of boards of education, administrative officials, staff personnel, students, and the community will be emphasized.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 865 - School Law

Credit Hours: 3

Constitutional statutory and case law that relates to all staff personnel, students, school district and other allied governmental units is investigated, analyzed and discussed. Special emphasis is given to the study of contracts, dismissals, tenure, retirement, pupil injuries, liability of school personnel, school district and board member's legal rights and responsibilities.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 866 - Public School Finance

Credit Hours: 3

A study of school budgeting procedures, revenue and expenditure accounting, problems related to local, state and federal financing of public school operations. The Missouri Uniform Accounting System for Public Schools is utilized in the development of a major school finance project.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 867 - School Plant Planning and Maintenance**Credit Hours:** 3

Designed to familiarize students with the development of master plans and educational specifications for a school facility. Attention is given to site and building evaluations, barrier-free facilities, bond issues, remodeling, energy conservation, contractor and architectural responsibilities, and equipping and maintaining school plants.

Lecture Contact Hours: 3

Typically Offered: Demand

EAD 870 - Specialized Topics in Educational Leadership**Credit Hours:** 1-3

Designed to upgrade the school administrator or leader's knowledge and skills in specialized areas of current interest and need. Variable content course. May be repeated to a maximum of six hours.

Typically Offered: Demand

EAD 882 - Superintendency Internship-Part 1**Credit Hours:** 1

Problem-based field experiences at the superintendency level to emphasize the intern's knowledge, skills and sensitivity in working with diverse students, staff and community. Students spend specified periods of time working with experienced administrative personnel.

Typically Offered: Demand

EAD 883 - Superintendency Internship-Part 2**Credit Hours:** 1

Problem-based field experience at the superintendency level to emphasize the intern's knowledge, skills and sensitivity in working with diverse students, staff and community.

Typically Offered: Demand

EAD 884 - Special Education Director Administration Internship-Part I

Credit Hours: 1

Designed as a certification course for the recommendation as a Special Education Director in accordance with the goals and outcomes as outlined by ISLLC, MoSPE, as well as the EAD Knowledge Base. The course provides the broad overview of the essential elements of an internship experience in the position of a Special Education Director including the daily operation, assessment, and evaluation of student achievement/placement in appropriate educational settings.

Typically Offered: Fall, Spring

EAD 885 - Special Education Director Administration Internship-Part II**Credit Hours: 1**

This is the second part of the Special Education Director of Administration internship which has been designed as a certification course for the recommendation as a Special Education Director in accordance with the goals and outcomes as outlined by ISLLC, MoSPE, as well as the EAD Knowledge Base. The course continues the broad overview of the essential elements of an internship experience in the position of a Special Education Director including the daily operation, assessment, and evaluation of student achievement/placement in appropriate educational settings.

Typically Offered: Fall, Spring

EAD 886 - Superintendency Internship-Part 3**Credit Hours: 1**

In this course, students continue problem-based field experiences at the superintendency level to emphasize the intern's knowledge, skills and sensitivity in working with diverse students, staff and community. Students spend specified periods of time working with experienced administrative personnel. May be repeated to a maximum of five hours.

Prerequisite: EAD 882 and EAD 883.

Typically Offered: Fall, Spring

EAD 895 - Research in Administrative Practice**Credit Hours: 3**

The study of research in the field of educational administration. This course integrates research skills and professional administrative practices. Students interpret, evaluate and apply research skills enabling them to design a Field Study proposal which is required for the Specialist degree in Educational Administration.

Lecture Contact Hours: 3

Typically Offered: Demand

Early Childhood Education**ECE 601 - Home/School/Community Relationships with Young Children and Their Families****Credit Hours: 3**

This course offers a transdisciplinary approach designed to enhance the student's understanding of the transactional relationship between the school, child and family. Particular emphasis is placed on family development and dynamics within a pluralistic society including the role that family functioning has on the child's total educational experience. May be taught concurrently with ECE 501. Cannot receive credit for both ECE 501 and ECE 601.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 675 - Working with Culturally and Linguistically Diverse Children and Families in Early Childhood

Credit Hours: 3

Begins exploring the disposition toward inquiry needed for ongoing self-development, and focuses on the knowledge and skills needed to infuse culturally and linguistically responsive curriculum. Students will gain an understanding of their professional role in strengthening respectful, collaborative family/child partnerships through effective use of community and family resources. An emphasis will be on learning from families and focusing on how best to support culturally and linguistically diverse young children and their families. May be taught concurrently with ECE 575. Cannot receive credit for both ECE 575 and ECE 675.

Prerequisite: EDC 345.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ECE 705 - Field Experiences in Early Childhood Education

Credit Hours: 1-3

Students participate in field experiences in area schools and other educational settings. This course will provide field experiences with three different age groups (birth-3; 3-5; 5-8). Course is designated for graduate students needing field experiences to meet certification requirements in Early Childhood Education. Students will attend weekly scheduled class discussion sessions on campus in addition to the required field work of 15 clock hours for every credit hour. May be repeated to a maximum of three hours.

Typically Offered: Demand

ECE 724 - Foundations of Early Childhood Education

Credit Hours: 3

Course will focus on the historical, psychological, philosophical, and social foundations of early childhood education. Theories and research are integrated with practical knowledge. Students will examine philosophy, curriculum, methodology, service delivery systems, and family involvement issues.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 725 - Inquiry in Early Childhood and Family Development

Credit Hours: 3

Inquiry in early childhood and family development. Introduction to the techniques used by education and social scientists to answer empirical questions. Includes in-depth analysis of current program-relevant theoretical and empirical studies.

Lecture Contact Hours: 3

Typically Offered: Fall

ECE 726 - Programming and Policy Issues for Early Childhood Settings**Credit Hours:** 3

Analysis of programs, policies and theories appropriate for young children and their families in a variety of early childhood settings.

Lecture Contact Hours: 3

Typically Offered: Spring

ECE 727 - Children and Families in a Diverse Society**Credit Hours:** 3

Examination of diverse cultures in American society. An analysis of racism, sexism, and other diversity issues within the school and community. Discussion of child development within different cultures and identifying changing family and community structures.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 728 - The Educational Role of Play**Credit Hours:** 3

A study of the social, emotional, cognitive, and language development of young children through play. Attention is given to the use of play in the organization and development of the early childhood classroom and curriculum. Current models of early childhood curriculum and their relationship to support of play will be explored.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 729 - Literacy in Early Childhood**Credit Hours:** 3

Develops awareness of and support for children's literacy knowledge as it grown and changes in the years from birth through early elementary school. This course emphasizes the supportive nature of the adult's role in young children's literacy learning. Descriptions of relevant, meaningful literacy events and suggestions for classroom or home support will be presented. Current research that has a bearing on methodology will be explored.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 730 - Family Literacy

Credit Hours: 3

Introduction to the philosophy and theory behind family literacy, as well as discussion on the development and implementation of a family literacy program. The four-component model of adult education, early childhood education, parent and child together (PACT), and parenting will be covered, both in theory and practical application. Explores the rationale for and characteristics of comprehensive family literacy, focusing upon the families being served, services being provided, outcomes being achieved, and the role and responsibilities of individuals, organizations, and communities involved.

Lecture Contact Hours: 3

Typically Offered: Demand

ECE 731 - Advanced Curriculum Development for Early Childhood Programs

Credit Hours: 3

Analysis of programs, methods, materials, and activities appropriate for early childhood education programs. Emphasis will be on developing and/or selecting strategies for a variety of programs such as day care centers, public school kindergartens and primary grades, Head Start programs, private preschools, etc.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ECE 762 - Seminar in Early Childhood and Family Development

Credit Hours: 3

Guided development of research paper focused on field of Early Childhood and Family Development.

Prerequisite: ECE 771.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ECE 771 - Proposal Development

Credit Hours: 4

Development of proposal for seminar paper. Proposal must be approved prior to data collection. Human subjects review will also be completed via a lab section with research advisor.

Prerequisite: ECE 725 and SFR 780.

Lecture Contact Hours: 3 **Lab Contact Hours:** 1

Typically Offered: Fall, Spring

Economics

ECO 600 - Fundamentals of Economics

Credit Hours: 3

An accelerated course dealing with the fundamentals of micro- and macroeconomic theory, designed for graduate students who have not completed undergraduate principles of economics. This course will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: College of Business majors must receive permission from a director of a College of Business graduate program.

Lecture Contact Hours: 3

Typically Offered: Summer

ECO 604 - Health Care Economics

Credit Hours: 3

A basic study of the economics of the health care market. Microeconomic theory is applied to the analysis of health care issues. Attention will be given to empirical studies of health care economics. Identical with HCM 604. Cannot receive credit for both ECO 604 and HCM 604. May be taught concurrently with ECO 504. Cannot receive credit for both ECO 504 and ECO 604.

Recommended Prerequisite: ECO 165.

Lecture Contact Hours: 3

Typically Offered: Fall

ECO 609 - Applied Econometrics

Credit Hours: 3

Students will learn simple regression and multiple regression analysis. Additional topics include model building, cross sectional and time series analysis, as well as related topics. Students will be required to engage in original research using the principles taught in the class and to write their research into a research paper. May be taught concurrently with ECO 409. Cannot receive credit for both ECO 409 and ECO 609.

Prerequisite: QBA 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ECO 614 - Game Theory

Credit Hours: 3

This course serves as an introduction to game theory, the study of strategy. The field has applications in economics, business,

military strategy, political science, sports, biology, and poker. Possible topics include games vs. decisions, dominance, Nash equilibrium, and others. May be taught concurrently with ECO 514. Cannot receive credit for both ECO 514 and ECO 614.

Prerequisite: ECO 600 and QBA 600 or equivalents.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ECO 615 - Public Sector Economics

Credit Hours: 3

Allocation and distribution functions of the public sector of the economy; theories of taxation and public expenditure; shifting and incidences of taxes, local-state federal finance. May be taught concurrently with ECO 515. Cannot receive credit for both ECO 515 and ECO 615.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

ECO 620 - History of Economic Thought

Credit Hours: 3

Development of economic theory. May be taught concurrently with ECO 520. Cannot receive credit for both ECO 520 and ECO 620.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

ECO 635 - The Economic Analysis of Law

Credit Hours: 3

Microeconomic theory is used to analyze the law and legal procedures. Although one purpose of the law is to resolve disputes between individuals, this course will focus on analyzing the incentives that the law gives rational individuals. Economic models are applied to four basic areas of law: property, contract, tort (accident), and criminal law. In addition, economic models are applied to the formation of the law and to legal institutions. May be taught concurrently with ECO 435. Cannot receive credit for both ECO 435 and ECO 635.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

ECO 640 - Environmental, Resource, and Energy Economics

Credit Hours: 3

This course will examine the analysis and application of economic principles to environmental, renewable, and nonrenewable natural resources. Topics include methods for valuing the environment, the role of incentives, cost-benefit analysis, the management of renewable resources such as forest, fisheries, water, and arable land as well as the management of nonrenewable resources such as oil, coal, and natural gas. The course will also examine waste and toxic substance disposal and the effect of industry and agriculture on the environment. May be taught concurrently with ECO 540. Cannot receive credit for both ECO 540 and ECO 640.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall Even

ECO 650 - Urban and Regional Economics

Credit Hours: 3

Study of economic forces determining the location of businesses and consumers, and the size, shape, and changes in market areas/cities/land use. Also, application of techniques of economic impact analysis to location decisions. May be taught concurrently with ECO 450. Cannot receive credit for both ECO 450 and ECO 650.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

ECO 656 - Comparative Economics Systems

Credit Hours: 3

This course examines the differing institutions of national economies. Students examine economic systems in various countries, past and present. The focus is on strategies countries use to compete globally, promote economic growth and development, provide for the public good, and protect various national interests in an increasingly global environment. Students also examine the ongoing evolution economic systems around the world, especially with regard to balancing the roles played by markets and governments in the economy. May be taught concurrently with ECO 456. Cannot receive credit for both ECO 456 and ECO 656.

Prerequisite: ECO 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Spring

ECO 665 - International Economics

Credit Hours: 3

Introduction to the key concepts of international trade and finance with a focus on the fundamental theories of international economics. Topics include the gains from and the patterns of international trade, protectionism, exchange rate determination and government policy intervention. May be taught concurrently with ECO 565. Cannot receive credit for both ECO 565 and ECO 665.

Prerequisite: ECO 600 and QBA 600 or equivalents.

Lecture Contact Hours: 3

Typically Offered: Spring

ECO 673 - Mathematical Methods for Economics

Credit Hours: 3

Development and application of mathematical techniques to economics. May be taught concurrently with ECO 473. Cannot receive credit for both ECO 473 and ECO 673.

Prerequisite: ECO 600 and QBA 600 or equivalents.

Recommended Prerequisite: ECO 365; and MTH 261 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

ECO 699 - Directed Research in Economics

Credit Hours: 1-3

The student is expected to conduct research in a selected topic in economics and to produce a written report. May be taught concurrently with ECO 599. Cannot receive credit for both ECO 599 and ECO 699.

Prerequisite: permission of instructor.

Typically Offered: Demand

ECO 721 - International Political Economy

Credit Hours: 3

A general introduction to the politics of international economic relations, with a special emphasis on the extent, causes, and consequences of globalization. Covers such topics as trade, investment, aid, global warming, international institutions, and the political roots of economic development. Identical with PLS 721. Cannot receive credit for both ECO 721 and PLS 721.

Lecture Contact Hours: 3

Typically Offered: Spring

Education

EDU 900 - Introduction to Doctoral Studies

Credit Hours: 1

This course provides an orientation to the Leadership, Learning, and Educational Change doctoral program in education. The course covers topics including the expectations and requirements for completing a doctoral degree, possible research areas, the research process, and the challenges and rewards of pursuing a doctoral degree. Students work collaboratively to develop mentoring plans and maps and initial specialization statements. Students review the program timeline and discuss expectations of the program and the fundamentals of doctoral study.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 1

Typically Offered: Summer

EDU 910 - Critical Perspectives in Education: Challenges and Opportunities

Credit Hours: 3

Explores the theory and practice of critical perspectives in education. Examines how issues of power, culture, and consciousness shape education, education systems, and educational research. Connects students' lived experiences with assumptions that govern dominant discourses in and around education.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Summer

EDU 915 - History and Philosophy of Education

Credit Hours: 3

Education of human beings has a long, troubling, challenging, and intriguing past-and we have much to learn from it. Students explore how current understandings of education are situated in the much larger context of educational ideas-from ancient civilizations until today. The course explores questions such as: What is the purpose of education? What is the role of public schooling? How does education respond to/and challenge social needs and understandings

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Summer

EDU 920 - Education Policy: Impact on Teachers, Students, and Local Communities

Credit Hours: 3

This course explores how federal, state, and local education policies affect the environments of schools, classrooms, and communities. Students examine political reactions and organizational buffers to policy change and how policies adapt and change to fit locally defined problems. This course will consider different policy implementation approaches, including bottom-up and top-down approaches to policy development and enactment.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Fall

EDU 925 - Leadership and Organizational Change

Credit Hours: 3

This course focuses on understanding the field of organizational change by emphasizing the nature, characteristics, responsibilities, and contextual determinants that influence a leader's role in changing educational organizations. Students

develop a foundational knowledge of leadership theories and their application to educational organizations.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Fall

EDU 927 - Transformative Learning

Credit Hours: 3

Transformative learning is the process by which adults become critically aware of their assumptions and expectations and those of others. This leads to interpretations and change in their beliefs, attitudes, and perspectives. Students will examine, design, and implement conditions that support quality learning experiences for adult learners. Students will demonstrate understanding through study, critique, reflection, development, and implementation of authentic adult learning experiences.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Spring

EDU 929 - Curriculum Change and Innovation

Credit Hours: 3

Students explore innovative ideas about curriculum and instruction in pre-K-12 classrooms. Students investigate effective schooling and gather ideas that can energize student learning through a variety of approaches, including constructivism, culturally sustaining pedagogy, arts-based education, and experiential and service learning. Students examine traditional and alternative assessment practices.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Spring

EDU 950 - Educational Research

Credit Hours: 3

This course provides an overview of research methodology in education. This course develops competencies in conducting literature reviews, comprehending research and interpreting results, and synthesizing research and theory to apply in practice. Students understand the primary research methodologies used in the field, critique methodologies, and compare findings across multiple methodologies.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Summer

EDU 952 - Qualitative Methods

Credit Hours: 3

The purpose of this course is to teach the basic principles and practices of qualitative inquiry in education. Students learn about qualitative research designs that educators use to examine educational issues and problems. Students learn about the various approaches and techniques used in qualitative research, including interviews, focus groups, and participant observation. They also learn how to develop research questions and research designs that are appropriate for qualitative research, and how to collect, analyze, and interpret data using a variety of qualitative data analysis techniques.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Summer

EDU 954 - Educational Statistics**Credit Hours:** 3

This is an introductory course to educational statistics for the behavioral sciences. This course aims to teach students how statistics apply to real-life problems. Topics include basic descriptive techniques, probability, sampling, estimation of parameters, and hypothesis testing. The study of statistics will be presented using everyday language, making the content more relatable and manageable.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 3

Typically Offered: Summer

EDU 956 - Leader Scholar Communities (LSCs)**Credit Hours:** 1

Leader Scholar Communities (LSC's) serve as advisement support communities as students advance toward the dissertation. Thematic seminars are devised to share interest and research topics and identify problems of practice. Consisting of small, shared interest groups and one MSU faculty member, LSC's meet regularly during the program. Must be taken for a minimum of four semesters (at choosing of student) for a total of four cumulative credit hours.

Prerequisite: must be admitted to the EdD Program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

EDU 998 - Dissertation Hours**Credit Hours:** 1-6

This course is designed to guide EdD students through the process of completing a doctoral dissertation. Students will be expected to conduct original research that aligns with their professional goals and interests. Aspects of the research process will require students to identify a research topic, develop a research question, design a study, collect and analyze data, and present findings. Throughout the course, students will receive guidance and support from their dissertation advisor and will participate in regular meetings with their dissertation committee. Students will also engage in peer review and discussion to gain feedback and support for their research. By the end of the course, students will have completed a substantial portion of their dissertation and will have developed the skills and knowledge necessary to complete their dissertation and defend it successfully. The course will

prepare students to contribute to the field of education through original research and scholarship. Students are required to complete 12 dissertation hours over the course of their EdD. A maximum of four Leader Scholar Community (LSC) hours may count toward the minimum of 12 required hours for dissertation.

Prerequisite: must be admitted to the EdD Program.

Typically Offered: Fall, Spring, Summer

Education, General (Teaching)

EDC 645 - Multicultural Education and Inclusivity: Theory and Practice

Credit Hours: 3

Students will learn to examine, evaluate, synthesize, and apply multicultural education and diversity research, theory, and practice in their professional work. Examination of individual differences in ethnicity, race, socioeconomic status, gender, exceptionalities, language, religion, sexual orientation, and geographic area in the context of education and society. Development of skills, knowledge, and dispositions related to teaching and learning in varied settings with diverse learners required of all educators to be effective in a global society.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EDC 700 - Teaching and Learning I: Current Issues and Trends in Education

Credit Hours: 5

This course examines educational issues, questions, concerns, and trends teachers face in their schools and daily practices. The impact of national and state policy-making, directions suggested by emerging educational research, and current educational reform efforts will receive particular attention.

Prerequisite: bachelor's degree and certification as a classroom teacher.

Lecture Contact Hours: 3 **Lab Contact Hours:** 4

Typically Offered: Fall

EDC 701 - Teaching and Learning II: Diversity, Curriculum and Research

Credit Hours: 5

This course engages students with research projects and curriculum ideas designed to strengthen and deepen student learning, with a special emphasis on questions of student diversity. The course helps students to formulate questions and use appropriate research principles to collect, analyze, interpret, and report data in order to evaluate the effectiveness of classroom instruction and educational policies. Students examine different curriculum models and theories and devise instructional practices to meet the needs of all learners.

Prerequisite: EDC 700; bachelor's degree and certification as a classroom teacher.

Lecture Contact Hours: 3 **Lab Contact Hours:** 4

Typically Offered: Spring

EDC 702 - Teaching and Learning III: Management and Assessment of Learning

Credit Hours: 5

This course examines the reasons for, benefits of, and limitations of the increasing call for effective and comprehensive assessment practices and helps teachers plan for, construct, use, and analyze a variety of assessment practices. This course also examines various models of and approaches to classroom management and discipline and the relation of management practices to effective learning.

Prerequisite: EDC 700 and EDC 701; bachelor's degree and certification as a classroom teacher.

Lecture Contact Hours: 3 **Lab Contact Hours:** 4

Typically Offered: Fall

EDC 703 - Teaching and Learning IV: Curriculum Development

Credit Hours: 3

This course engages students in a careful examination of the curriculum they teach, from district curriculum goals, national curriculum standards, and course- or grade-level goals. The course encourages reflection about instructional practices in light of curriculum goals.

Prerequisite: EDC 700 and EDC 701 and EDC 702; bachelor's degree and certification as a classroom teacher.

Lecture Contact Hours: 3

Typically Offered: Spring

EDC 704 - Teaching and Learning V: Research Seminar

Credit Hours: 3

An in-depth study related to a research topic identified earlier in the program or curricular project begun as part of a learning team, leading to the guided development and completion of an extensive research paper.

Prerequisite: EDC 700 and EDC 701 and EDC 702; bachelor's degree and certification as a classroom teacher.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EDC 786 - Research Seminar in Education

Credit Hours: 1-3

An in-depth study of chosen topic in K-12 education leading to the guided development and completion of an extensive research paper or major creative work.

Prerequisite: SFR 780.

Typically Offered: Fall, Spring

EDC 800 - Teacher Leadership I: Contemporary Educational Problems

Credit Hours: 5

This course examines current educational problems at the macro-social level and how current trends in education ease or exacerbate those problems. These problems include, but are not limited to, the achievement gap, charter schools, socio-economics, homelessness, school funding, race/gender, community-school relationships, the social impact of technology, public school funding, the state of democracy, and so forth.

Prerequisite: bachelor's degree and certification as a classroom teacher; master's degree in an education related field.

Lecture Contact Hours: 3 Lab Contact Hours: 4

Typically Offered: Fall

EDC 801 - Teacher Leadership II: Diversity and Curricular Design**Credit Hours: 5**

This course examines diversity and our shrinking global relationships through the lens of various theoretical perspectives (feminist, critical race theory, queer theory, etc.) as the means to critique current curriculum models and construct more culturally response curriculum for 21st century students. Participants will lead in the creation of curriculum that is responsive to their particular students, has a global perspective, and is mindful of ability differences

Prerequisite: EDC 800; bachelor's degree and certification as a classroom teacher; master's degree in an education related field.

Lecture Contact Hours: 3 Lab Contact Hours: 4

Typically Offered: Fall

EDC 802 - Teacher Leadership III: Building Classroom Climate and Effective Student Assessments**Credit Hours: 5**

This course examines various philosophical bases for creating successful classroom communities and reasonable strategies for assessment student growth. This course also examines the myriad ways that classroom community understandings impact why and how students might be assessed.

Prerequisite: EDC 800 and EDC 801; bachelor's degree and certification as a classroom teacher; master's degree in an education related field.

Lecture Contact Hours: 3 Lab Contact Hours: 4

Typically Offered: Fall

EDC 803 - Teacher Leadership IV: Curriculum Theory**Credit Hours: 3**

This course engages students in a critical examination of curriculum theory as the basis for making curricular decisions. The course encourages reflection about curriculum goals in light of contemporary and historically understood curriculum theory.

Prerequisite: EDC 800 and EDC 801 and EDC 802; bachelor's degree and certification as a classroom teacher; master's degree in an education related field.

Lecture Contact Hours: 3

Typically Offered: Fall

Educational Leadership

EDD 901 - Leadership Theory and Practice

Credit Hours: 4

Advanced study of leadership theories, concepts, and inquiry as applies to educational organizations. The course will explore leadership theories, power and authority in organizations, leader effectiveness, and organizational reform. Emphasis will be placed on understanding leadership in organizations through application and extension of leadership theories in practice.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 4

Typically Offered: Demand

EDD 902 - Quantitative Methods in Educational Research I

Credit Hours: 3

This course focuses on types of regression analysis and includes the following topics: simple linear regression, multiple regression, and semi-partial correlation, regression with categorical variables, categorical and continuous variables within the same model, Multilevel analysis (Hierarchical linear modeling), and structural equations. The emphasis in this course is on conceptual and practical understanding, rather than on computation. Goals are for the students to: (a) understand the basic assumptions and models underlying regression analysis, (b) use a statistical analysis package to conduct regression analysis, (c) read and interpret the output from a statistical analysis package, and (d) use this output to write a results sections.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 3

Typically Offered: Demand

EDD 903 - Leadership Inquiry II

Credit Hours: 1

This course is part of the statewide collaborative doctoral program. This course will emphasize a wide range of instructional methodologies, cooperative activities, problem-based learning and practical application. The students will be able to design, conduct, and report research to address problems of practice using appropriate research methodologies.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 1

Typically Offered: Demand

EDD 904 - Content and Context of Learning

Credit Hours: 3

Students will develop the knowledge and skills for examining, designing, and implementing school and classroom conditions that support quality learning experiences for all students and personnel. This course theme is about learning, and those issues that enhance and detract from quality learning for all. Throughout the course, participants and instructors will model optimum learning conditions and strategies. Students will be asked to demonstrate a thorough understanding of those conditions and competencies through study, critique, development and implementation of authentic learning experiences for their colleagues. Resources to support the learning experiences will include audio-visual materials, readings, internet, and simulations. Authentic assessment will be used to determine each student's level of competence in the course content.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 3

Typically Offered: Demand

EDD 905 - Leadership Inquiry III

Credit Hours: 1

This one hour doctoral level seminar will focus on the development of literature reviews to address problems of practice.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 1

Typically Offered: Demand

EDD 906 - Educational Leadership Inquiry IV

Credit Hours: 1

The purpose of this advanced seminar is to deepen understanding of research by requiring students to make decisions about certain aspects of their dissertation research, following the dissertation-in-practice format. Specifically, the course will clarify the problem of practice, purpose of the study, research questions, framework, and study design. This course is also designed to provide scaffolding for the written comprehensive examination.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 1

Typically Offered: Demand

EDD 907 - Program Planning and Evaluation

Credit Hours: 3

Explores the theory and practice of evaluation of educational programs including evaluation models, research methods and design strategies to measure program outcomes, especially student and school performance. In addition, skills in program planning will be developed.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 3

Typically Offered: Demand

EDD 908 - Qualitative Tools for Applied Research in Educational Leadership

Credit Hours: 3

This course focuses on qualitative research theory, design and analysis. Students will learn how educational leaders can use qualitative research design to critically examine research questions in their practice. They will also learn to analyze educational issues and execute processes to effectively explore those issues using qualitative methods.

Prerequisite: admission to the Doctorate in Educational Leadership program.

Lecture Contact Hours: 3

Typically Offered: Demand

Educational Technology

EDT 630 - Technology Systems Management and Maintenance

Credit Hours: 3

This course will include an introduction to computer and peripheral hardware, microcomputer operating systems and education-related software packages, and the management of computers in a classroom or school setting. The management and maintenance of a system of computers is useful in many educational, instructional, communication and media production settings. Educational technology students should be prepared to troubleshoot and resolve basic technology problems that occur in an educational setting. Therefore, a variety of education-specific topics will be presented in this course. May be taught concurrently with EDT 530. Cannot receive credit for both EDT 530 and EDT 630.

Lecture Contact Hours: 3

Typically Offered: Fall

EDT 640 - Technology Administration and Management

Credit Hours: 2

This course is designed to provide technology specialists, technology coordinators, library media specialists, school administrators and educators with a working knowledge of the administrative processes and concerns of operating an educational technology support facility. The primary focus will be toward leadership, strategic planning, and change management and writing technology plans. The content of this course is primarily structured for educational institutions but could be utilized for instructional and training systems in many types of industrial, religious, medical and corporate organizations that teach and train. May be taught concurrently with EDT 563. Cannot receive credit for both EDT 563 and EDT 640.

Lecture Contact Hours: 2

Typically Offered: Demand

EDT 645 - Building Blocks for Coding in an Educational Setting

Credit Hours: 3

This course explores systematic approaches that can be used in the classroom to help students develop computational thinking skills through computer coding. To understand how computer coding can support learning, help develop problem solving skills, be an outlet for expression and creativity, and be used to increase motivation and persistence, current research will be explored. This "learn by doing course" will introduce content and pedagogical knowledge related to coding. Students will discover resources and lessons on how to introduce computer coding in the classroom and ways to integrate digital skills to facilitate

learning. May be taught concurrently with EDT 545. Cannot receive credit for both EDT 545 and EDT 645.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EDT 660 - Digital-Age Learning Environments

Credit Hours: 3

This course covers the use of educational technology tools to guide the student in systematically developing e-learning instruction. These tools are taught and utilized as individual assignments to maximize learning in e-learning environments and include the topics of usability and accessibility. Students are expected to apply previously learned skills and knowledge including the principles and techniques for integrating current and emerging instructional technology to plan, create, and manage an e-learning project in a real-world context. May be taught concurrently with EDT 560. Cannot receive credit for both EDT 560 and EDT 660.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EDT 662 - Educational Applications of Computers for Teaching

Credit Hours: 3

Using computers in educational settings, this course includes the investigation of software applications for classroom teaching. Emphasis is placed on the selection of numerous educational technology tools for classroom utilization to enhance student learning. May be taught concurrently with EDT 562. Cannot receive credit for both EDT 562 and EDT 662.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EDT 665 - Selection and Utilization of Educational Technology

Credit Hours: 3

This course involves the principles and techniques of selecting and utilizing computer technology as well as other basic forms of auditory, visual and tactile instructional media and technologies. These technologies are used in a variety of educational, instructional, informational, and communications settings. Educational research, instructional design skills, equipment operation, and materials production as they relate to teaching strategies are all a part of this course. May be taught concurrently with EDT 565. Cannot receive credit for both EDT 565 and EDT 665.

Lecture Contact Hours: 3

Typically Offered: Spring

EDT 690 - Topical Issues in Educational Technology

Credit Hours: 1-6

This is a variable credit course with the amount of credit based on the extent of the work required. Special topics related to the

field of Educational Technology which may broaden the scope of the Program of Study are covered. May be repeated to a maximum of six hours. May be taught concurrently with EDT 597. Cannot receive credit for both EDT 597 and EDT 690.

Typically Offered: Demand

EDT 696 - Continuing Education in Educational Technology

Credit Hours: 1-6

This is a variable credit course with the amount of credit based on the extent of the work required. Special topics related to Educational Technology for continuing professional development are covered. May be repeated to a maximum of six hours.

Typically Offered: Demand

EDT 761 - Online Teaching and Pedagogy

Credit Hours: 3

This course provides students interested in online teaching with best practices in distance learning and pedagogical principles associated with the online learning environment. This course engages students in an overview of the theoretical frameworks, along with emerging trends in distance learning. Students will review the instructional design process for online environments. A survey of the relevant research in online education including case studies is evaluated.

Lecture Contact Hours: 3

Typically Offered: Spring

EDT 763 - Administration of Educational Technology

Credit Hours: 3

This course covers management skills including budgeting, facility design, policies and procedures; selection and utilization, evaluation, assessment and other topics related to coordinating an educational technology program at the building, district, institutional or organizational level.

Lecture Contact Hours: 3

Typically Offered: Fall

EDT 764 - Instructional Design

Credit Hours: 3

This course covers the analysis and development of instruction for large group, small group, and individual student instruction. The process of planning, development, implementation, and evaluation is emphasized. The course integrates instructional design models with learning theories to create instruction for use in educational and other professional settings.

Lecture Contact Hours: 3

Typically Offered: Spring

EDT 765 - Educational Media Production

Credit Hours: 3

This course covers principles and techniques of designing and producing advanced forms of media materials in video and other visual formats. There is an emphasis on multimedia that includes computer-generated graphics along with video and audio editing as well as additional production techniques.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Summer

EDT 766 - Trends and Practices in Educational Technology

Credit Hours: 3

This course explores instructional technology trends and practices being implemented in a variety of learning environments. Participants in this course will experience the practical side of designing a technology-rich curriculum and developing activities with multimedia tools. Additionally, the philosophical side of technology use affecting society and education will also be examined.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EDT 767 - Educational Technology Practicum

Credit Hours: 2

This is a field-experience based course that requires the student to spend a minimum of 20 clock hours in a working environment where educational media technology services and programs are used or developed. The practicum may include: school media services; university programs, development centers in industry, government or medical programs, educational TV studios, computer facilities or other media production venues.

Lab Contact Hours: 4

Typically Offered: Demand

EDT 770 - Fundamentals of Computer Networking, Cloud Based Technology, and Internet Safety

Credit Hours: 3

This introductory graduate course will provide a foundational understanding of networking, cloud based storage, and internet safety. Learners in this course will gain an understanding of office and business networking, using the cloud for storage and safety, and types of internet attacks that they may face. Students will learn how to evaluate the needs of their organization and come to terms with the vulnerabilities or breaches they could face when implementing new technologies and explore ways to protect their organizations online.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EDT 777 - Problems in Educational Technology

Credit Hours: 1-3

This is a variable credit course with the amount of credit based on the extent of the work required. An in-depth examination of issues and problems in the field of Educational Technology is researched. May be repeated to a maximum of three hours.

Typically Offered: Demand

EDT 797 - Research Methods for Educational Technology

Credit Hours: 3

This course is a comprehensive introduction to the process of research, including the diverse research methods and designs, and the evaluation of research findings in the field of educational technology with a strong applied focus.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

EDT 798 - Research Seminar in Educational Technology

Credit Hours: 3

This course utilizes the Research Proposal created in SFR 780 focused on the field of Educational Technology. Data is collected and analyzed, then research is completed.

Prerequisite: SFR 780.

Lecture Contact Hours: 3

Typically Offered: Demand

EDT 799 - Educational Technology Thesis

Credit Hours: 3-6

This course utilizes the Thesis Template for the preparation of a thesis in the field of Educational Technology. The thesis will consist of original or creative research accountable to the Thesis Committee review and defense. May be repeated to a maximum of six hours.

Prerequisite: SFR 780.

Typically Offered: Demand

Early Childhood and Elementary Education

EEM 601 - Introduction to Technology-Based Inquiry Instruction

Credit Hours: 3

Introduction to eMINTS philosophy and instructional model for teachers, emphasis on constructivist-based pedagogies, questioning strategies and critical thinking; use of educational software, internet resources and classroom website design and

development. Eight clock hours field experience embedded. May be taught concurrently with EEM 501. Cannot receive credit for both EEM 501 and EEM 601.

Lecture Contact Hours: 3

Typically Offered: Fall

EEM 602 - Applications of Technology-Based Inquiry Instruction

Credit Hours: 3

Application of eMINTS philosophy, instructional model and teaching strategies; emphasis on cooperative learning, instructional use of interactive whiteboards, information literacy and modes of classroom communication, digital file management, Webquest development and multimedia project design and development. Eight clock hours field experience embedded. May be taught concurrently with EEM 502. Cannot receive credit for both EEM 502 and EEM 602.

Prerequisite: C grade or better in EEM 601.

Lecture Contact Hours: 3

Typically Offered: Spring

EEM 603 - Implementing Technology-Based Inquiry Instruction

Credit Hours: 3

Third course in eMINTS 3-course sequence. Emphasis on building a learning community, classroom management, instructional planning and implementation in a technology enriched classroom, interdisciplinary teaching methods, technology-assisted assessment, collaborative reflection to improve student performance. Eight clock hours field experience embedded. May be taught concurrently with EEM 503. Cannot receive credit for both EEM 503 and EEM 603.

Prerequisite: EEM 601 and EEM 602 with grades of C or better.

Lecture Contact Hours: 3

Typically Offered: Fall

EEM 606 - Orientation for Intensive Language and Cultural Experience for Educators

Credit Hours: 1

Students selected by application and interview process. Prepare for international travel and exposure to the people, cultures and primary language of the host country. Students develop an introspective case study proposal to be carried out during and/or after the experience abroad. Field trips outside class are required. May be taught concurrently with EEM 596. Cannot receive credit for both EEM 596 and EEM 606.

Prerequisite: permission.

Lecture Contact Hours: 1

Typically Offered: Spring

EEM 607 - Intensive Language and Cultural Experience for Educators

Credit Hours: 4

Experience three weeks of exposure to the educational system, culture and language of the host country while reflecting on their own learning. Students will conducted an introspective case study, keep a journal, and create a portfolio. May be taught concurrently with EEM 597. Cannot receive credit for both EEM 597 and EEM 607.

Prerequisite: EEM 606 and permission.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Summer

EEM 608 - Post-Travel Seminar for Intensive Language and Cultural Experience for Educators**Credit Hours: 1**

Post-travel seminar deconstructs experience abroad. Students discuss strategies used as a learner and analyze effective teaching techniques. Participants compare cultural and language differences that teachers need to consider in teaching students in a new language. Introspective case study research and portfolios will be shared. May be taught concurrently with EEM 598. Cannot receive credit for both EEM 598 and EEM 608.

Prerequisite: EEM 606 and EEM 607 and permission.

Lecture Contact Hours: 1

Typically Offered: Fall

EEM 616 - Nature Unfolds**Credit Hours: 3**

Students will increase their awareness, knowledge, and appreciation of Missouri habitats and wildlife resources and learn fundamental life and earth science related concepts by experiencing ways to use inquiry-based instructional methods in primary grades. This is one of four courses required to satisfy the conservation education area of emphasis. May be taught concurrently with EEM 516. Cannot receive credit for both EEM 516 and EEM 616.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall, Spring

EEM 617 - Nature Unleashed**Credit Hours: 3**

Students will increase their awareness, knowledge, and appreciation of Missouri habitats and wildlife resources and learn fundamental life and earth science related concepts by experiencing ways to use inquiry-based instructional methods in intermediate grades. This is one of four courses required to satisfy the conservation education area of emphasis. May be taught concurrently with EEM 517. Cannot receive credit for both EEM 517 and EEM 617.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall, Spring

EEM 618 - Project Wet, WILD, and Learning Tree

Credit Hours: 3

Students will develop skills and knowledge of conservation education using the Projects Wet, WILD, and Learning Tree curriculums, which requires handling specific materials, using technology in science learning, and learning from investigations. This is one of four courses required to satisfy the conservation education area of emphasis. May be taught concurrently with EEM 518. Cannot receive credit for both EEM 518 and EEM 618.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

EEM 619 - Nature Unhooked: Conserving Missouri's Aquatic Ecosystems

Credit Hours: 3

Students will develop foundational field biology skills related to Missouri's aquatic ecosystems in order to teach in a structured educational mode, via an outdoor setting. This is one of four courses required to satisfy the conservation education area of emphasis. May be taught concurrently with EEM 519. Cannot receive credit for both EEM 519 and EEM 619.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

EEM 676 - Topical Issues in Education

Credit Hours: 1-5

To develop further understanding and skills in the improvement of teaching procedures, curriculum, supervision, or administration. Each course is concerned with a single topic. Number of class hours determined by semester hours of credit. Approved recurring course topic: B.E.A.R.S. Seminars. A series of seven seminars with different topics designed to enhance and develop further understanding and skills in the improvement of teaching procedures for beginning educators. Seminars are offered monthly, with the exception of December, beginning in September and ending in April. Participation in at least six of these seminars is required for credit. Participants will receive an "I" grade for the course due to the course extending through the spring semester. Grades will be changed at the end of the spring semester as requirements are met. This course is available to both beginning and veteran educators and satisfies the initial certification requirement of attending a beginning teacher assistance program with a college or university.¹(1-0) F. Variable content course. A maximum of three hours may be used on a degree program. May be taught concurrently with EEM 576. Cannot receive credit for both EEM 576 and EEM 676.

Prerequisite: permission.

Typically Offered: Demand

EEM 720 - Introduction to Learner Development and Differences in Gifted and Talented Education

Credit Hours: 3

An introduction to gifted education and the models of giftedness, strategies of identification, and facilitation of assessment for placement of children in gifted programs. Examination of resources available to classroom teachers and exploration of the challenges and rewards involved in working with gifted students. Historical and legal aspects of the evolution of gifted education will be explored.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EEM 721 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education I

Credit Hours: 3

This course explores curriculum planning, instructional delivery and assessments for gifted and talented students. Understanding and selecting content that promotes higher order cognition and the processes involved in creating contexts for discovery-based learning is examined.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EEM 722 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education II

Credit Hours: 3

This course expands the exploration of curriculum planning, instructional delivery, and assessments for gifted and talented students with special emphasis on social-emotional aspects of gifted students.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

EEM 723 - Learning Environments and Collaborations in Gifted and Talented Education

Credit Hours: 3

This course explores the creation of learning environments conducive to higher-order thought processes, exploration and discovery. Professional collaborative processes; techniques and means of communicating/collaborating with families, content experts/professionals, and other educators in the field of Gifted and Talented education will be examined and practiced.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

EEM 796 - Problems in Education

Credit Hours: 1-3

Specific problems in education related to needs and interests of the student. May be repeated to a maximum of three hours.

Typically Offered: Demand

EEM 799 - Thesis

Credit Hours: 1-6

May be repeated to a maximum of six hours.

Prerequisite: ELE 711 and SFR 780 and permission.

Typically Offered: Demand

Elementary Education

ELE 600 - Current Issues and Applications in Elementary Education

Credit Hours: 3-5

Application of current innovations and examination of contemporary issues facing elementary teachers including classroom management, inclusion, multilingual learners, integrated planning and instruction with art, music, health and physical education. A comprehensive field experience in area school classrooms is required. May be taught concurrently with ELE 500. Cannot receive credit for both ELE 500 and ELE 600.

Prerequisite: B grade or better in ELE 429 or ELE 603 , and ELE 434 or ELE 604 , and ELE 438 or ELE 602 , and LTC 420 or LTC 656 , and LTC 421 or LTC 656 ; and concurrent enrollment in ELE 605 .

Corequisite: ELE 605

Typically Offered: Fall, Spring

ELE 601 - Communication Arts Instruction in the Elementary School

Credit Hours: 3

Study of the development of language and communication abilities, procedures and instruments for assessing language development, and techniques and materials for promoting development in communication skills for elementary and middle school programs. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning. Course limited to certification students only.

Prerequisite: ELE 302 and permission of Director of Graduate Program in consultation with the Teacher Certification and Compliance Office.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ELE 602 - Social Studies Instruction in the Elementary School

Credit Hours: 3

Current issues and approaches in teaching elementary school social studies to children including exceptional children who are mainstreamed in the regular classroom. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning and teaching.

Prerequisite: B grade or better in ELE 410, and LTC 420 or LTC 656, and LTC 421 or LTC 656; and C grade or better in HST 121 or HST 122, and PLS 101 and GRY 100; and admission to graduate Elementary Education program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ELE 603 - Mathematics Instruction in Elementary Schools

Credit Hours: 3

Emphasis upon diagnosis of skill level development, teaching basic mathematical skills, and individualizing instruction in mathematics for elementary and middle school programs. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning.

Prerequisite: B grade or better in ELE 410, and LTC 420 or LTC 656, and LTC 421 or LTC 656; and C grade or better in MTH 320 and MTH 360; and admission to graduate Elementary Education program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ELE 604 - Science Instruction in the Elementary School

Credit Hours: 3

Current issues and approaches in teaching elementary school science to children including exceptional children who are mainstreamed in the regular classroom. Critical review of current research-based practices will be required as well as application of those strategies in lesson planning and teaching.

Prerequisite: B grade or better in ELE 410, and LTC 420 or LTC 656, and LTC 421 or LTC 656; and C grade or better in 8 hours of science (one biology and one physical science); and admission to graduate Elementary Education program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ELE 605 - The Reflective Practitioner

Credit Hours: 3

Introduces students to action research as reflection on their own teaching and learning, and their students' learning and achievement. Requires an intensive field experience in area elementary school. May be taught concurrently with ELE 510. Cannot receive credit for both ELE 510 and ELE 605.

Prerequisite: B grade or better in ELE 429 and ELE 434 and ELE 438, and LTC 420 or LTC 656, and LTC 421 or LTC 656; and concurrent enrollment in ELE 600.

Corequisite: ELE 600

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ELE 710 - Elementary School Curriculum

Credit Hours: 3

The purpose of this course is to analyze the philosophical and theoretical frameworks that guide elementary curriculum for the assumptions that each makes with regard to teaching and learning. Students will be introduced to the development of curriculum and curriculum materials for use in elementary educational settings. Students will examine the social, political and institutional contexts in which curriculum is developed and used, curriculum development methods and process, and various methods for the implementation, evaluation and distribution of curriculum materials.

Lecture Contact Hours: 3

Typically Offered: Fall

ELE 711 - Contemporary Issues in Elementary Curriculum

Credit Hours: 3

Contemporary issues confronting the modern elementary school; current problems, innovations and proposed changes which affect the total elementary school program. Trends and issues that are developing at the national level.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

ELE 713 - Advanced Theory and Practice in the Teaching of Communication Arts

Credit Hours: 3

Materials, methods and procedures for effective classroom presentation of communication arts. Selection, organization and development of content materials; current issues and trends in the field.

Lecture Contact Hours: 3

Typically Offered: Fall

ELE 714 - Advanced Theory and Practice in the Teaching of Social Studies

Credit Hours: 3

Materials, methods and procedures for effective classroom presentation of social studies. Selection, organization and development of content materials; current issues and trends in the field.

Lecture Contact Hours: 3

Typically Offered: Spring

ELE 715 - Advanced Theory and Practice in the Teaching of Mathematics

Credit Hours: 3

Materials, methods and procedures for effective classroom presentation of elementary mathematics. Selection, organization and development of content materials; current trends and issues in the field.

Lecture Contact Hours: 3

Typically Offered: Spring

ELE 716 - Advanced Theory and Practice in the Teaching of Science

Credit Hours: 3

Materials, methods and procedures for effective classroom presentation of elementary science. Emphasis is placed on teaching science as inquiry and experimentation. Selection, organization and development of content materials; current trends and issues in science education.

Lecture Contact Hours: 3

Typically Offered: Fall

ELE 717 - Advanced Theory and Practice in the Teaching of Economic Education**Credit Hours: 3**

Materials, methods, and procedures for effective classroom presentation of economic education. Selection, organization, and development of curriculum materials, current issues and trends in the field of economics. Presents students with a framework for proper scope and sequencing of economics concepts to develop an awareness of appropriate benchmarks for economic education instruction.

Lecture Contact Hours: 3

Typically Offered: Fall

ELE 720 - Advanced Theory and Practice in Student Assessment and Evaluation**Credit Hours: 3**

Materials, methods, and procedures for effective assessment and evaluation of students. Planning, selection, construction, use, and analysis of a variety of assessment practices including formal and informal approaches. Application of knowledge learned throughout course will help students make judicious and reflective decisions while teaching.

Lecture Contact Hours: 3

Typically Offered: Spring

ELE 721 - Standards-Based Integrated Curriculum, Learning, and Teaching**Credit Hours: 3**

Analysis and application of current theories and research on integrated curriculum and learning, performance assessment, and standards-based education. Develop classroom, school-wide and/or district-wide curricula based on state standards. Focus is on deciding what is essential to teach and on improving learners' math and literacy skills across the curriculum.

Lecture Contact Hours: 3

Typically Offered: Fall

ELE 722 - Differentiated Instruction for Early Childhood, Elementary, and Middle School**Credit Hours: 3**

Materials, methods, and procedures for effective differentiation of instruction and evaluation of students. Planning, selection,

construction, use and analysis of a variety of differentiated instructional practices across grade levels and disciplines, paying close attention to elementary and middle school learners. Application of knowledge learned throughout course will help students make judicious and reflective decisions while teaching.

Lecture Contact Hours: 3

Typically Offered: Spring

ELE 723 - Social Emotional Learning and Classroom Culture

Credit Hours: 3

This course aims to equip educators with a comprehensive understanding of SEL's impact on students' academic achievement and personal well-being. We will explore theoretical foundations, key components of social and emotional competence, evidence-based strategies, and practical techniques for integrating and advocating for SEL in the classroom. By prioritizing the social and emotional development of students, educators can create nurturing and empowering learning environments that prepare students for lifelong success in a complex and interconnected world.

Lecture Contact Hours: 3

Typically Offered: Demand

ELE 725 - The Emerging Master Teacher

Credit Hours: 3

This course is designed to engage students in collective and individual inquiry regarding the "problem space" of teaching and learning. It explores current and historical trends/theories that have shaped teaching practices, curriculum design, and assessments of learning.

Prerequisite: minimum GPA of 3.00 in the last 60 hours.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

ELE 730 - Internship in Number and Operations

Credit Hours: 1

A supervised mathematics teaching practicum with online seminars in which the candidate acquires experience working with a range of students and adult learners (teachers and parents) on concepts related to numbers and operations in base ten appropriate in K-5 students.

Prerequisite: admission to the Elementary Mathematics Specialist program; and two years of elementary or middle school teaching; and concurrent enrollment in MTH 750.

Corequisite: MTH 750

Lab Contact Hours: 2

Typically Offered: Demand

ELE 732 - Internship in Rational Numbers and Proportional Thinking

Credit Hours: 1

A supervised mathematics teaching practicum with online seminars in which the candidate acquires experience working with a range of students and adult learners (teachings and parents) on rational number and proportional thinking concepts.

Prerequisite: admission to the Elementary Mathematics Specialist Program; and two years of elementary or middle school teaching; and concurrently enrollment in MTH 752.

Corequisite: MTH 752

Lab Contact Hours: 2

Typically Offered: Demand

ELE 734 - Internship in Algebraic Reasoning**Credit Hours:** 1

A supervised mathematics teaching practicum with online seminars in which the candidate acquires experience working with a range of students and adult learners (teacher and parents) on concepts related to algebraic reasoning appropriate in K-5 students.

Prerequisite: admission to the Elementary Mathematics Specialist Program; and two years of elementary or middle school teaching; and concurrently enrollment in MTH 754.

Corequisite: MTH 754

Lab Contact Hours: 2

Typically Offered: Demand

ELE 736 - Foundations of Mathematical Leadership I for Elementary Mathematics Specialists**Credit Hours:** 2

This introductory course provides opportunities for participants to develop knowledge and understanding of leadership principles and the process of continuous improvement as it relates to the roles and responsibilities of elementary mathematics specialists.

Prerequisite: admission to the Elementary Mathematics Specialist Program; and two years of elementary or middle school teaching.

Lecture Contact Hours: 2

Typically Offered: Demand

ELE 737 - Foundations of Mathematical Leadership II for Elementary Mathematics Specialists**Credit Hours:** 3

This second leadership course in the Elementary Mathematics Specialists program focuses on research and practice related to teamwork, interaction, communication, conflict resolution, and leadership in K-5 schools. Candidates will also examine effective strategies for influencing and facilitating school/district improvement (e.g., mentoring and observing colleagues, conducting professional development, and making data-informed decisions to improve student learning) collaborating with colleagues and administration. Candidates will focus on mentoring and observing colleagues, conducting professional development, and making data-informed decisions to improve student learning school- and district-wide.

Prerequisite: admission to the Elementary Mathematics Specialist Program; and two years of elementary or middle school teaching.

Lecture Contact Hours: 3

Typically Offered: Demand

ELE 738 - Internship in Geometry and Measurement

Credit Hours: 1

A supervised mathematics teaching practicum with online seminars in which the candidate acquires experience working with a range of students and adult learners (teachers and parents) on geometry and measurement concepts.

Prerequisite: admission to the Elementary Mathematics Specialist Program; and two years of elementary or middle school teaching; and concurrent enrollment in MTH 760.

Corequisite: MTH 760

Lab Contact Hours: 2

Typically Offered: Demand

ELE 770 - Action Research Proposal Development

Credit Hours: 3

This course integrates key theories, concepts, and principles from previous courses to implement action research in an education environment. This course introduces students to the action research process through critically reading and analyzing research. Students will identify an actual educational problem present in their school or community and engage in the action research cycle with the goal of addressing the identified problem. Students will recognize the value of identifying educational challenges and engage in the praxis of addressing those challenges through the action research process in the school setting. Students will give special attention to issues of equity, access, and cultural diversity when considering research questions, problems of practice, and the conduct of research in the school setting. Action research proposal must be approved by IRB prior to data collection in ELE 772.

Prerequisite: ELE 711; and admitted to the Elementary Education MSSED program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

ELE 771 - Proposal Development

Credit Hours: 1

Development of proposal for seminar paper or thesis. Proposal must be approved prior to data collection. Human subjects review will also be completed.

Prerequisite: currently enrollment in SFR 780.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

ELE 772 - Research Seminar in Elementary Education

Credit Hours: 3

Guided development of a research paper or a creative project.

Prerequisite: ELE 711 and SFR 780.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Fall, Spring

ELE 775 - Research Study in Elementary Education**Credit Hours:** 1-3

Guided development of a research paper or creative project. Individual work with faculty member on developing the proposal for a research study or continued work on a study beyond the duration of ELE 772. Variable content course.

Prerequisite: SFR 780; and ELE 711 in which a project has been identified for completion in ELE 772.

Typically Offered: Fall, Spring

ELE 803 - Curriculum and Assessment in Mathematics Education**Credit Hours:** 3

This course is designed to deepen students understanding of current mathematics curriculum, curriculum alignment with current standards and textbooks, and assessment tools for meeting the diverse needs of students. Students will also learn to develop and provide professional development in various areas of mathematics teaching and how to communicate assessment results to teachers, parents and other constituents.

Prerequisite: Master's degree in Education, Mathematics Education or related field; ELE 737; and may be taken concurrently with ELE 804.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

ELE 804 - Mathematical Leadership III for Mathematics Specialists**Credit Hours:** 3

This course focuses on research and practice related to teamwork, coaching, communication, conflict resolution, and more intensive leadership training. It examines effective strategies for influencing and facilitating school/district improvement and includes an embedded practicum.

Prerequisite: Master's degree in Education, Mathematics Education or related field; ELE 737; and ELE 803 or concurrent enrollment.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall Odd, Spring Even

ELE 805 - Seminar in Mathematics Education**Credit Hours:** 3

This course is designed to guide students in conducting a research paper or creative project focused on mathematics education.

Prerequisite: ELE 803 and ELE 804.

Lecture Contact Hours: 3

Typically Offered: Fall Odd, Spring Even

English

ENG 601 - Advanced Writing: Fiction

Credit Hours: 3

Group discussion and criticism. Individual writing projects. May be repeated to a maximum of six hours. May be taught concurrently with ENG 501. Cannot receive credit for both ENG 501 and ENG 601.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 604 - Advanced Writing: Nonfiction

Credit Hours: 3

Group discussion and criticism. Individual writing projects. May be organized around one or more of the following non-fiction genres: creative nonfiction, magazine writing, stylistics, and popular science writing. May be repeated to a maximum of six hours. May be taught concurrently with ENG 500. Cannot receive credit for both ENG 500 and ENG 604.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 605 - Methods in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 3

Contemporary approaches to teaching grammar, reading, writing, listening, and speaking for students who are learning English as a second language. Includes material design, development, and evaluation; student assessment; integration of all components into a unified TESOL curriculum. May be taught concurrently with ENG 505. Cannot receive credit for both ENG 505 and ENG 605.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 606 - Advanced Writing: Drama

Credit Hours: 3

Group discussion and criticism. Individual writing projects. May be repeated to a maximum of six hours. May be taught concurrently with ENG 506. Cannot receive credit for both ENG 506 and ENG 606.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 607 - Advanced Writing: Poetry

Credit Hours: 3

Group discussion and criticism. Individual writing projects. May be repeated to a maximum of six hours. May be taught concurrently with ENG 503. Cannot receive credit for both ENG 503 and ENG 607.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 613 - Shakespeare

Credit Hours: 3

Selected plays and poems of Shakespeare, representative criticism, and Shakespeare's theatre and milieu. May be taught concurrently with ENG 513. Cannot receive credit for both ENG 513 and ENG 613.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 614 - British Drama

Credit Hours: 3

Representative British plays from pre-Renaissance times to present, including such authors as Marlowe, Congreve, Wilde, and Shaw. May be taught concurrently with ENG 514. Cannot receive credit for both ENG 514 and ENG 614.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 615 - Chaucer

Credit Hours: 3

The Canterbury Tales and other works by Chaucer; social, historical, literary, and linguistic background of late Middle Ages. May be taught concurrently with ENG 510. Cannot receive credit for both ENG 510 and ENG 615.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 617 - The American Novel

Credit Hours: 3

Works by major figures in the development of the American Novel, such as Twain, James, Howells, Dreiser, Lewis, Hemingway, Faulkner, and Warren; major criticism of the genre. May be taught concurrently with ENG 517. Cannot receive credit for both ENG 517 and ENG 617.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 618 - The British Novel**Credit Hours:** 3

Works by major figures in the development of the British novel, such as Fielding, Austen, Dickens, George Eliot, Hardy, Lawrence, and Woolf; major criticism of the genre. May be taught concurrently with ENG 512. Cannot receive credit for both ENG 512 and ENG 618.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 619 - American Drama**Credit Hours:** 3

Development of American Drama to the present; emphasis on 20th century, including such authors as O'Neill, Wilder, Hellman, Williams, Miller, and Albee; major criticism of the genre. May be taught concurrently with ENG 519. Cannot receive credit for both ENG 519 and ENG 619.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 623 - Writing Center Theory and Practice**Credit Hours:** 3

Collaborative workshop designed to prepare individuals for teaching one-to-one in a writing center environment. May be taught concurrently with ENG 523. Cannot receive credit for both ENG 523 and ENG 623.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 627 - History of Rhetoric**Credit Hours:** 3

Study of historical trends important to the development of written discourse and writing instruction. Survey of theory from classical antiquity through the nineteenth century. May be taught concurrently with ENG 525. Cannot receive credit for both ENG 525 and ENG 627.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 628 - Rhetorics for the 21st Century

Credit Hours: 3

Study of rhetorical theory and argument in civic, private, professional and digital spaces. Application may include, but is not limited to, literary criticism, literacy, technical writing and composition. May be taught concurrently with ENG 526. Cannot receive credit for both ENG 526 and ENG 628.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 629 - Composition and Rhetoric in High School and Junior College

Credit Hours: 3

A survey of current writing and evaluation practices. Training in the teaching and evaluating of oral and written composition. The student will have an opportunity to examine methods currently taught in area high schools. May be taught concurrently with ENG 520. Cannot receive credit for both ENG 520 and ENG 629.

Prerequisite: teacher certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 631 - Writing for Teachers

Credit Hours: 3

A course intended to develop the writing of prospective and in-service teachers and to explore the means by which writing can be encouraged, developed, and assessed. May be taught concurrently with ENG 521. Cannot receive credit for both ENG 521 and ENG 631.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 632 - Writing in the Legal Profession

Credit Hours: 3

Study and application of specific writing skills and composing strategies to the field of law and legal writing. Practice in specific genres of legal writing such as case briefs, warranties, and contracts. Emphasis on learning to read case law and developing strategies and techniques for written legal documents. May be taught concurrently with ENG 532. Cannot receive credit for both ENG 532 and ENG 632.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

ENG 633 - Studies in Children's Literature

Credit Hours: 3

A study of significant themes (such as gender, ethnicity, or childhood) or genres (such as children's poetry, the picture book, and the literary folktale and historical fiction) in literature for the young. May be repeated when content varies. May be taught concurrently with ENG 533. Cannot receive credit for both ENG 533 and ENG 633.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 634 - Historical Perspectives in Children's Literature

Credit Hours: 3

Study of one or more periods in the historical development of children's literature, such as the Golden Age of children's classics, twentieth-century British children's literature, and the novels for children since 1950. Variable content course. May be repeated when content varies. May be taught concurrently with ENG 534. Cannot receive credit for both ENG 534 and ENG 634.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 636 - Young Adult Novel

Credit Hours: 3

Study of various kinds of novels written for young people; includes historical perspectives; emphasizes developments since the "New Realism" of the 1960s. May be taught concurrently with ENG 536. Cannot receive credit for both ENG 536 and ENG 636.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 637 - Writing for Intercultural Audiences

Credit Hours: 3

Develop cultural competence in the area of international and intercultural communication and writing. Students will learn about communicating across cultures and writing for intercultural and international audiences. May be taught concurrently with ENG 537. Cannot receive credit for both ENG 537 and ENG 637.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

ENG 639 - Advanced Writing for Children and Young Adults

Credit Hours: 3

Group discussion and criticism. Individual writing projects. May be taught concurrently with ENG 539. Cannot receive credit for both ENG 539 and ENG 639.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 640 - Small Press Production**Credit Hours:** 3

Introduction to the world of small press publishing. A Moon City Press publication project will be executed from inception to official publication, covering all the steps leading to completion. Steps include manuscript review, contracting, editing, design, marketing, and distribution. Student participants will be designated as official editors of the project. Variable course content. May be repeated to a maximum of six hours with permission and when projects change. May be taught concurrently with ENG 540. Cannot receive credit for both ENG 540 and ENG 640.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 641 - Renaissance Literature**Credit Hours:** 3

Sidney, Spenser, Donne, Milton, and other major non-dramatic writers; literary developments, 1500-1660. May be taught concurrently with ENG 541. Cannot receive credit for both ENG 541 and ENG 641.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 642 - British Romantic Literature**Credit Hours:** 3

Blake, Wollstonecraft, Dorothy Wordsworth, William Wordsworth, Coleridge, Byron, Mary Shelley, Percy Bysshe Shelley, Keats; cultural backgrounds and literary developments, 1798-1837. May be taught concurrently with ENG 544. Cannot receive credit for both ENG 544 and ENG 642.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 643 - Restoration and 18th Century Literature**Credit Hours:** 3

Dryden, Swift, Pope, Johnson, and other significant writers; literary developments, 1660-1798. May be taught concurrently with ENG 543. Cannot receive credit for both ENG 543 and ENG 643.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 645 - Modern British Literature

Credit Hours: 3

Significant works from several genres by authors such as Conrad, Yeats, Greene, Lessing, and Stoppard; literary developments, 1901-present. May be taught concurrently with ENG 547. Cannot receive credit for both ENG 547 and ENG 645.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 646 - Victorian Literature

Credit Hours: 3

Tennyson, Browning, the Rossettis, Hardy, and other British Victorian writers; literary developments, 1837-1901. May be taught concurrently with ENG 546. Cannot receive credit for both ENG 546 and ENG 646.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 647 - Ethics in Professional Writing

Credit Hours: 3

Examines the ethical considerations and challenges associated with the practice of technical/professional communication. May be taught concurrently as ENG 549. Cannot receive credit for both ENG 549 and ENG 647.

Lecture Contact Hours: 3

Typically Offered: Spring Even

ENG 649 - Major British Authors

Credit Hours: 3

Study of several major works by one or two British writers, such as Marlowe and Jonson, Johnson and Boswell, George Eliot and Hardy, Yeats and T.S. Eliot, Amis and Larkin; the intellectual milieu of their works. May be taught concurrently with ENG 548. Cannot receive credit for both ENG 548 and ENG 649.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 650 - Writing About Food

Credit Hours: 3

Study of the broad ways writers use their document design and communication skills to participate in food-related industries. Readings from current publications and practice in food writing through blog posts, creative nonfiction, instructions, restaurant and product reviews, recipe collections, posters, and research-based writing. This course provides students in technical writing, as well as those preparing for careers in food-based industries, with enough technical and rhetorical understanding to produce effective documents and writings in the broad range of styles and formats that include writing about food. May be taught concurrently with ENG 550. Cannot receive credit for both ENG 550 and ENG 650.

Lecture Contact Hours: 3

Typically Offered: Fall Even

ENG 651 - Literary Publication**Credit Hours: 3**

Practical experience with the literary publication process, including the editing work that goes into literary journals and the process of submitting and publishing creative work. Students will be introduced to various aspects of the literary market and other opportunities for creative writers, such as conferences and writing workshops. Students will learn about the publishing process through University publications projects such as the English Department's Moon City Press. May be taught concurrently with ENG 551. Cannot receive credit for both ENG 551 and ENG 651.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 652 - American Romantic Literature**Credit Hours: 3**

Significant works from several genres by authors such as Cooper, Poe, Irving, Thoreau, Emerson, Hawthorne, Melville, and Whitman; literary developments to 1855. May be taught concurrently with ENG 553. Cannot receive credit for both ENG 553 and ENG 652.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 654 - Topics in Ethnic American Literature**Credit Hours: 3**

Focus on one or more of the following: African American literature, Asian American literature, Latina/o literature, Native American literature, the literatures of European American immigrant groups, and relevant literary criticism. May be repeated to a maximum of six hours if content varies. May be taught concurrently with ENG 554. Cannot receive credit for both ENG 554 and ENG 654, for the same course content.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

ENG 656 - American Realism

Credit Hours: 3

Significant works from several genres by authors such as Twain, Howells, James, Crane, and Frost; literary developments, 1855-1914. May be taught concurrently with ENG 557. Cannot receive credit for both ENG 557 and ENG 656.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 659 - Modern American Literature

Credit Hours: 3

Significant works from several genres by authors such as Fitzgerald, Hemingway, Lowell, Roethke, Bellow, and O'Connor; literary developments, 1914-present. May be taught concurrently with ENG 559. Cannot receive credit for both ENG 559 and ENG 659.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 661 - Major American Authors

Credit Hours: 3

Study of several major works by one or two writers, such as Emerson and Thoreau, Frost and Dickinson, Sexton and Lowell; the intellectual milieu of their works. May be repeated when content varies. May be taught concurrently with ENG 558. Cannot receive credit for both ENG 558 and ENG 661.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 662 - Contemporary American Poetry/Fiction

Credit Hours: 3

A survey of contemporary American poetry or fiction, which encompasses a selection of significant authors and traces the history and development of various literary theories, schools and movements, from new Criticism through more recent trends in both narrative and lyric modes (poetry) and Post-Modern narrative techniques (fiction). Variable content course. May be repeated to a maximum of six hours if topic is different. May be taught concurrently with ENG 562. Cannot receive credit for both ENG 562 and ENG 662.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 663 - Literature and Medicine

Credit Hours: 3

This course examines literary representations of health and illness, ability and disability, and cultural practices of healing. Drawing on major theoretical movements in medical humanities, students will situate literary texts within the ethical situations and institutional structures of their community and culture. May be taught concurrently with ENG 563. Cannot receive credit for both ENG 563 and ENG 663.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 664 - Place-Conscious Reading and Writing**Credit Hours:** 3

This course emphasizes the study of place, specifically, enacting literacy practices focused upon the cultural, economic, and environment sustainability of a learning locale. Students will also explore local networking strategies and ways of spurring public action to improve their own literacy and the literacy of their students at the local or regional level. May be taught concurrently with ENG 564. Cannot receive credit for both ENG 564 and ENG 664.

Lecture Contact Hours: 3

Typically Offered: Fall Even

ENG 665 - Literature and Language Workshop**Credit Hours:** 1-3

Variable topics related to the use of writing and literature in the classroom. Number of class hours determined by length of workshop. May be repeated to a maximum of six hours. May be taught concurrently with ENG 565. Cannot receive credit for both ENG 565 and ENG 665.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

ENG 666 - Reading Instruction, Assessment, and Remediation in Secondary ELA Classrooms**Credit Hours:** 3

This course provides students with research-based frameworks for effective literacy instruction in secondary ELA contexts. Students will learn multiple techniques for identifying and analyzing reading difficulties in adolescent readers and will learn instructional strategies and techniques for supporting continued reading growth in adolescent readers, including individual remediation practices. Students will apply their learning in school based practical experiences with adolescent readers. May be taught concurrently with ENG 576. Cannot receive credit for both ENG 576 and ENG 666.

Prerequisite: admission to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 667 - Data Displays in Technical Documents

Credit Hours: 3

Students will analyze, synthesize, and present data visually as well as verbally. Students will recognize which forms of data graphics are most appropriate in a given context; identify and organize the data readers need; work with visual literacy and design principles to evaluate and develop data displays for accuracy and ethical presentation. May be taught concurrently with ENG 567. Cannot receive credit for both ENG 567 and ENG 66

Lecture Contact Hours: 3

Typically Offered: Spring Odd

ENG 668 - Major World Authors**Credit Hours: 3**

Study of several major works by one or two writers, such as Aristophanes and Sophocles; Ibsen and Strindberg; the intellectual milieu of their works. May be repeated when content varies. May be taught concurrently with ENG 568. Cannot receive credit for both ENG 568 and ENG 668.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 669 - Nonfiction Publishing**Credit Hours: 3**

Overview of the history and evolution of the publishing industry. Exploration of the processes involved in publishing a nonfiction book title. May be taught concurrently as ENG 569. Cannot receive credit for both ENG 569 and ENG 669.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

ENG 672 - Writing Grant Proposals**Credit Hours: 3**

Studying and applying basic elements of grant-proposal writing, including identifying potential funding sources, aligning projects with goals of funders, writing a compelling statement of need, and establishing a credible method of accomplishing goals as well as a reasonable budget and timeline. Emphasis on tailoring proposals to prospective funders in concise, persuasive writing. May be taught concurrently with ENG 572. Cannot receive credit for both ENG 572 and ENG 672.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 678 - Writing in the Health Professions**Credit Hours: 3**

Rhetorical analysis and production of a broad range of document genres, including public health campaigns, grant proposals,

medical reports, and patient information materials. Students research and present their findings on current issues in the field. Emphasis on audience analysis, document design principles, and ethical considerations. May be taught concurrently with ENG 570. Cannot receive credit for both ENG 570 and ENG 678.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 679 - Writing for the Web

Credit Hours: 3

Explores the professional writer's role in creating web pages and sites designed to deliver information. Topics include planning, user analysis, organization, structure, presentation, content development, writing style, and accessibility accommodation. May be taught concurrently with ENG 573. Cannot receive credit for both ENG 573 and ENG 679.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 682 - Gender Issues in Language and Literature

Credit Hours: 3

Consideration of gender issues from the standpoint of literary history, genre, composition/rhetoric, linguistics, or feminist theory. May be repeated to a maximum of six hours if topic is different. May be taught concurrently with ENG 580. Cannot receive credit for both ENG 580 and ENG 682.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 683 - Themes in Folkloristics

Credit Hours: 3

A topical course investigating the relationship of folklore and daily life through reading and examination of the field and its genres as a global discipline. Consideration of lived-environments such as occupational, educational, and popular culture settings or themes. May be repeated to a maximum of nine hours if topic is different. May be taught concurrently with ENG 583. Cannot receive credit for both ENG 583 and ENG 683.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 684 - Topics in Professional Writing

Credit Hours: 3

Covers a single topic within the field of professional writing. The subject will vary according to student demand and faculty availability. Examples include writing for the legal profession, writing proposals, regulatory writing, developing training materials, and ethics in professional writing. Variable content course. May be repeated to a maximum of six hours when the topic

varies. May be taught concurrently with ENG 575. Cannot receive credit for both ENG 575 and ENG 684.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 688 - Sociolinguistics for Language Teaching

Credit Hours: 3

Various sociolinguistic topics, with an emphasis on those relevant for language teaching, such as language attitudes; standard languages; literacy; language variation; multilingualism; language planning and policy; and language maintenance and loss. May be taught concurrently with ENG 592. Cannot receive credit for both ENG 592 and ENG 688.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 689 - Studies in Linguistics

Credit Hours: 3

Topics in linguistics including history of linguistics, language acquisition, or transformational grammars. May be repeated to a maximum of nine hours if topic is different. May be taught concurrently with ENG 593. Cannot receive credit for both ENG 593 and ENG 689.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 690 - Grammatical Analysis

Credit Hours: 3

Advanced study of English morphology and syntax using a variety of current approaches, including phrase-structure, transformational, discourse-based, and semantic-based grammars. May be taught concurrently with ENG 590. Cannot receive credit for both ENG 590 and ENG 690.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 691 - Linguistic Theory

Credit Hours: 3

A specialized survey of linguistics intended for graduate and advanced undergraduate students. Areas covered include, but are not limited to, phonology, morphology, syntax, semantics, discourse, pragmatics, language change, and language variation. Students cannot receive credit for both ENG 296 and ENG 691. May be taught concurrently with ENG 591. Cannot receive credit for both ENG 591 and ENG 691.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 694 - Technical Writing Internship

Credit Hours: 1-3

Projects in technical writing, combining academic training and supervised work experience in business, industry, government, academia, or nonprofit organizations. After one three-hour internship is completed (135 hours in one organization), course may be repeated to a maximum of six hours. Students are required to work a minimum of 45 hours for each credit hour. May be taught concurrently with ENG 574. Cannot receive credit for both ENG 574 and ENG 694.

Typically Offered: Fall, Spring

ENG 695 - Principles of Second Language Acquisition

Credit Hours: 3

The processes of both first and second language acquisition, with an emphasis on Teaching English to Speakers of Other Languages (TESOL) and bilingualism. Includes the theory behind and history of TESOL methodologies, as well as contemporary theoretical issues in TESOL. May be taught concurrently with ENG 595. Cannot receive credit for both ENG 595 and ENG 695.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 696 - Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 3

Practical and theoretical perspectives in specific areas in TESOL, including speaking, grammar, composition, and critical reading. Consideration of material design and student assessment. May be taught concurrently with ENG 596. Cannot receive credit for both ENG 596 and ENG 696.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 697 - Practicum in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 1-3

Application of coursework in TESOL with individualized experience based on students' needs and background, especially in composition, grammar, and pronunciation. May be taught concurrently with ENG 597. Cannot receive credit for both ENG 597 and ENG 697.

Typically Offered: Fall, Spring

ENG 698 - Early English Language and Literature

Credit Hours: 3

Special topics in Old and Middle English language and literature, including an understanding of the linguistic structure of early English, experience in working with a variety of medieval English texts, and application of various linguistic and literary theories to the study of Old and Middle English writing. May be repeated to a maximum of six hours if topic is different. Will not count toward any teacher certification requirement. May be taught concurrently with ENG 598. Cannot receive credit for both ENG 598 and ENG 698.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 700 - Introduction to Research Methods in English**Credit Hours:** 3

Provides an introduction to research methods and writing within the broadly defined discipline of English Studies. It focuses on ways of developing research problems and questions, designing studies, and conducting, reading and evaluating research. Students will also learn to present their research in verbal and written formats including the abstract, proposal, conference presentation, and publishable essay.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 701 - Graduate Fiction Workshop**Credit Hours:** 3

Group discussion and criticism. Individual writing projects. Intensive reading and writing assignments designed to enhance students' ability to compete in the publishing world and in application to further graduate study.

Prerequisite: ENG 601 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 702 - Service Learning in English II**Credit Hours:** 1

This service component for an existing course incorporates community service with classroom instruction. It provides an integrated learning experience, addressing the practice of citizenship and promoting an awareness of and participation in public affairs. It includes a minimum of 40 hours of service that benefits an external community organization or public-service provider. Approved service placements and assignments will vary depending on the course topic. May be taken once for credit.

Prerequisite: concurrent enrollment in an English course designated as a service-learning offering.

Typically Offered: Fall, Spring

ENG 703 - Practicum in Teaching Composition

Credit Hours: 1-3

Writing, evaluation of student essays, discussion of current theory and practice in teaching college composition. Credit from this course will not count toward the MA in English or the MS in Ed (ENG) degrees. Required of graduate teaching assistants their first two semesters of appointment. May be repeated to a maximum of six hours.

Typically Offered: Fall, Spring

ENG 704 - Teaching Writing Online

Credit Hours: 3

An intensive study of the theory and practice associated with teaching composition online. Students will examine key ideas in the field as well as the benefits and challenges of online pedagogy. Students will have the opportunity to study and design online instructional materials.

Lecture Contact Hours: 3

Typically Offered: Summer

ENG 707 - Graduate Poetry Workshop

Credit Hours: 3

Group discussion and criticism. Individual writing projects. Intensive reading and writing assignments designed to enhance students' ability to compete in the publishing world and in application to further graduate study.

Prerequisite: ENG 607 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 708 - Creative Writing Project II

Credit Hours: 3

Directed development of a substantial work of poetry, fiction, or non-critical prose. This work may be submitted as a degree paper in partial fulfillment of the research requirement in English.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 710 - Seminar: Fiction

Credit Hours: 3

Significant genres, authors, and developments in prose fiction. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 711 - Seminar: Poetry

Credit Hours: 3

Significant genres, authors, and developments in poetry. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 712 - Seminar: Drama

Credit Hours: 3

Detailed study of selected plays and dramatists. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 720 - Seminar: Composition Theory

Credit Hours: 3

Detailed study of contemporary composition theory in university freshman writing. Open to all graduate students. Graduate teaching assistants must take ENG 720 during their first year of appointment, unless they have taken ENG 520 as undergraduates.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 721 - Theory of Basic Writing

Credit Hours: 3

Study of issues, problems, and pedagogical strategies appropriate to teaching composition to students with limited English proficiency.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 722 - Literacy Theory and Composition

Credit Hours: 3

An introduction to literacy theory and its application to the teaching of composition.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 725 - Seminar: Composition and Rhetoric

Credit Hours: 3

Topics in the application of rhetorical theory to the teaching of writing. May be repeated to a maximum of nine hours if the content is different.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

ENG 726 - Issues in Professional Writing

Credit Hours: 3

Study of some aspect of professional writing not ordinarily offered in the curriculum. Students read, discuss, and write about selected books or other documents related to the field. Variable content course. May be repeated to a maximum of six hours if topic is different. Variable content course.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 730 - Ozarks Writing Project

Credit Hours: 3

An intensive course in the writing process and the writing curriculum, designed for experienced K-16 teachers across the disciplines using the National Writing Project model. Readings of current theory and research will be related to participants' experiences as writers and as teachers. May be repeated to a maximum of six hours.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Summer

ENG 732 - Seminar: Issues and Trends in English Education

Credit Hours: 3

Study of some aspects of English Education not ordinarily in the curriculum. Students read, discuss, and write about selected books and articles related to the field. Variable content course. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 735 - Seminar: Children's Literature**Credit Hours:** 3

Detailed study of selected works, authors, or themes in children's/young adult literature. Variable content course. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3**Typically Offered:** Fall, Spring**ENG 744 - Seminar: English Literature Before 1798****Credit Hours:** 3

Detailed study of selected works, authors, or themes in English literature up to the Romantic Movement. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3**Typically Offered:** Fall, Spring**ENG 748 - Seminar: English Literature After 1798****Credit Hours:** 3

Detailed study of selected works, authors, or themes in English literature since 1798, including the Romantic Movement. May be repeated to a maximum of nine hours if the topic is different.

Lecture Contact Hours: 3**Typically Offered:** Fall, Spring**ENG 757 - Seminar: Early American Literature****Credit Hours:** 3

Detailed study of selected works, authors, or themes in American Literature to 1900. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3**Typically Offered:** Fall, Spring**ENG 758 - Seminar: 20th Century American Literature****Credit Hours:** 3

Detailed study of selected works, authors, or themes in American Literature, 1900 to the present. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 770 - The Teaching of Technical and Professional Writing

Credit Hours: 3

Theory and practice of teaching college courses in technical and professional writing. Some consideration of in-service writing courses for business, science, industry, and government.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 771 - Professional Writing

Credit Hours: 3

Theory and practice of writing and analyzing documents in business, science, and industry.

Lecture Contact Hours: 3

Typically Offered: Fall

ENG 772 - Writing for Professionals

Credit Hours: 3

Theory and practice in technical communication and workplace writing. Students will write and analyze documents in business, science, and industry. Using primary and secondary research, students solve problems by developing employment materials, brochures, instructions, graphics, manuals, or other professional documents. Practice in document design, usability testing, planning and managing projects, and/or communication in management and leadership. Emphasis on audience analysis, including multicultural considerations, as well as on presenting information clearly, concisely, and ethically in both prose and visuals. Recommended for students who do not have a background or undergraduate degree in Technical/Professional Writing.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 773 - Writing for the Computer Industry

Credit Hours: 3

Study and practice in developing user-centered computer system documentation. Topics include working with workplace and user communities to develop content; formatting, organizing, and designing information; and user analysis and testing.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 774 - Professional Writing Internship

Credit Hours: 3

Projects in technical and professional writing, combining academic training and supervised work experience in business and industry. Students are required to work a minimum of 150 hours.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 775 - Designing Technical Documents

Credit Hours: 3

Producing, analyzing, and adapting technical documents to meet the needs of diverse clients.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 777 - Professional Editing

Credit Hours: 3

Current practices in editing and publishing in hard-copy and electronic formats. Group and individual projects involving diverse fields, audiences, and formats; topics include copyediting, content editing, usability editing, author-editor relations, and the production process.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 780 - Seminar: Intellectual Backgrounds of Literature in English

Credit Hours: 3

Relation of basic intellectual and social ideas to the form, content, production/publication, and distribution of selected literary works or genres. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 781 - Rhetorical Criticism

Credit Hours: 3

Study of rhetorical and metalinguistic approaches to analyzing literature, with applications of theory to particular works.

Lecture Contact Hours: 3

Typically Offered: Demand

ENG 785 - Seminar: Critical Theories

Credit Hours: 3

Literary criticism, with emphasis upon modern, critical practice; application of theory to particular problems. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 786 - Seminar: Form and Theory of Prose

Credit Hours: 3

Designed for creative writers in the areas of both fiction and creative nonfiction, though graduate-level students in any department can enroll. This course provides detailed study in literary theory, advanced craft approaches, and contextual literary traditions. Students will read a mix of theoretical and primary texts and write focused scholarship in response to their own and published works. This course prepares graduate students in creative writing for comprehensive exams in the area of Form and Theory.

Lecture Contact Hours: 3

Typically Offered: Fall Even

ENG 787 - Seminar: Form and Theory of Poetry

Credit Hours: 3

Designed for creative writers, though graduate-level students in any department can enroll in the course. Advanced study of the tradition and evolution of poetic forms with a focus on social, historical, and cultural contexts. Students will write both analytical and creative works. This course prepares graduate students in creative writing for comprehensive exams in the area of Form and Theory of Poetry.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

ENG 792 - Linguistics in Rhetoric and Composition

Credit Hours: 3

Applications of linguistic models to rhetorical theory and/or the teaching of composition.

Lecture Contact Hours: 3

Typically Offered: Spring

ENG 793 - Seminar: Linguistics

Credit Hours: 3

Topics in historical, theoretical, or applied linguistics. May be repeated to a maximum of nine hours if topic is different.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 796 - Seminar: Assessment in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 3

Advanced course on assessment issues as they affect English language learners. Includes regulations related to the assessment and testing of English learners, language proficiency assessment, classroom-based assessment, and the creating and evaluation of language testing instruments.

Prerequisite: ENG 605 and ENG 695.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ENG 797 - Advanced Practicum in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 1-6

Application of coursework in TESOL with individualized teaching experience with English learners. Includes reflective practice and the implementation of a culminating project.

Prerequisite: ENG 605 and ENG 695.

Typically Offered: Fall, Spring

ENG 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission of the Director of Graduate Studies in English.

Typically Offered: Fall, Spring

Entrepreneurship

ENT 643 - New Venture Management

Credit Hours: 3

This course provides insight into the creation and development of an entrepreneurial venture. Students will gain an understanding of where operating 'levers' for the business are located, the going-to-market plan, and the impact of business dynamics/the marketplace on the entity's economics and organization. The course will explore evolving responses to change while maintaining operating control. The analysis and exercises will form the basis for a cogent business plan. Emphasis is placed on student preparation and presentation of a complete business plan. May be taught concurrently with ENT 543. Cannot receive credit for both ENT 543 and ENT 643.

Lecture Contact Hours: 3

Typically Offered: Fall

ENT 671 - Small Business Consulting

Credit Hours: 3

Students solve real problems within the small business environment. Students gain first-hand experience in assessing and improving the operations of existing entrepreneurial firms. Cases may be developed in-class and/or referred through the Small Business Development Center. May be taught concurrently with ENT 561. Cannot receive credit for both ENT 561 and ENT 671.

Lecture Contact Hours: 3

Typically Offered: Spring

ENT 684 - Feasibility Study

Credit Hours: 3

An exposure to the dynamics of identifying opportunities and dealing with the risks of implementing new ideas and ventures. In consultation with the instructor, students assess the viability of real business ventures. Cases may be developed in-class and/or referred through the Small Business Development Center. Emphasis is placed on team preparation and presentation of a feasibility study. May be taught concurrently with ENT 584. Cannot receive credit for both ENT 584 and ENT 684.

Lecture Contact Hours: 3

Typically Offered: Spring

Finance

FIN 600 - Managerial Finance

Credit Hours: 3

Comprehensive study of the finance function in the business enterprise, including financial analysis-planning-forecasting, capital budgeting, leasing, working capital management, capital structure, dividend policy, and multinational finance. Designed for graduate students who have not had an undergraduate course in financial management in the last five years. This course will not be counted in the hours required for a College of Business undergraduate or graduate degree.

Prerequisite: ACC 600 and ECO 600; and permission of a director of a College of Business Graduate Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

FIN 638 - Introduction to Estate Planning

Credit Hours: 3

Estate planning process; estate distribution, probate, wills, trusts, gifts, life insurance; taxes incidental to an estate; administration of estates and trusts; analysis and selection of devices for lifetime and testamentary transfers of property. Identical with RMI 638. May be taught concurrently with FIN 538. Cannot receive credit for more than one of FIN 538, FIN 638, RMI 538, or RMI 638.

Prerequisite: LAW 231 or LAW 600; and FIN 380 or FIN 381 or FIN 600 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

FIN 670 - Foundations of Fintech

Credit Hours: 3

This course provides an overview of the emerging field of Fintech. As a relatively new field, the world of Fintech is constantly (and rapidly) evolving. The course will cover the history of Fintech, and focus primarily on how Fintech has disrupted two areas of traditional finance: 1) financial intermediation, and 2) investment management. May be taught concurrently with FIN 570. Cannot receive credit for both FIN 570 and FIN 670.

Prerequisite: B- grade or better in FIN 380 or FIN 600; and admission to the MBA program, or admission to a graduate certificate program within the Finance and Risk Management Department, or permission from the MBA Program Director or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall

FIN 681 - Professional Financial Planning

Credit Hours: 3

A case-oriented study of comprehensive financial planning for client families. This course integrates prior knowledge of financial planning principles and practice, investments, insurance, law, tax planning, retirement planning, and estate planning. Advanced topics in these subjects are also presented. The financial planning process, standards of professional practice, and planner ethics are emphasized. May be taught concurrently with FIN 581. Cannot receive credit for both FIN 581 and FIN 681.

Prerequisite: ACC 321 and FIN 381 and FIN 485 and RMI 211 and LAW 231; and RMI 314 or concurrent enrollment; and FIN 538 or RMI 538 or RMI 638 or ACC 524 or ACC 624 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

FIN 682 - International Financial Management

Credit Hours: 3

This course is designed to survey how the key concepts of business finance can be applied in the context of a multinational firm. Topics include: the nature and functioning of the foreign exchange market, parity conditions, foreign exchange risk management, and international investment and financing decisions. May be taught concurrently with FIN 582. Cannot receive credit for both FIN 582 and FIN 682.

Prerequisite: B- grade or better in FIN 380 or FIN 600; and admission to the MBA program, or admission to a graduate certificate program within the Finance and Risk Management Department, or permission from the MBA Program Director, or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

FIN 685 - Portfolio Management and Alternative Assets

Credit Hours: 3

An overview of the portfolio management process for traditional assets such as equity and fixed income securities. Exploration of alternative assets categories, and how such assets can improve the portfolio management outcomes for investors. May be taught concurrently with FIN 585. Cannot receive credit for both FIN 585 and FIN 685.

Prerequisite: B- grade or better in FIN 380 or FIN 600 ; and admission to the MBA program, or admission to a graduate certificate program within the Finance, Economics and Risk Management Department, or permission from the MBA Program Director, or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

FIN 686 - International Financial Statement Analysis

Credit Hours: 3

An introduction to the study of international financial statement analysis emphasizing the financial statement analysis portion of the common body of knowledge from the Chartered Financial Analyst (CFA) program. May be taught concurrently with FIN 586. Cannot receive credit for both FIN 586 and FIN 686.

Prerequisite: B- grade or better in FIN 380 or FIN 600; and admission to the MBA program, or admission to a graduate certificate program within the Finance and Risk Management Department, or permission from the MBA Program Director, or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

FIN 687 - Security Valuation

Credit Hours: 3

Valuation of equity, fixed income, and derivative securities. May be taught concurrently with FIN 587. Cannot receive credit for both FIN 587 and FIN 687.

Prerequisite: B- grade or better in FIN 380 or FIN 600 ; admission to the MBA program, or admission to a graduate certificate program within the Finance, Economics and Risk Management Department, or permission from the MBA Program Director, or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

FIN 689 - Management of Financial Institutions

Credit Hours: 3

A study of the theory and practice of managing depository and non-depository financial institutions. The principal focus is asset and liability management, especially with respect to the risks associated with establishing the ideal balance between the two. Such risks include interest rate, liquidity, credit, foreign exchange and capital risk. The use of money and credit markets, as well as derivative securities to minimize risk as well as to achieve strategic financial objectives is stressed. Management implications of current developments in the interaction between financial institutions and markets are discussed. May be taught concurrently with FIN 589. Cannot receive credit for both FIN 589 and FIN 689.

Prerequisite: B- grade or better in FIN 380 or FIN 600; and admission to the MBA program, or admission to a graduate certificate program within the Finance and Risk Management Department, or permission from the MBA Program Director or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

FIN 697 - Research Issues and Problems: Finance

Credit Hours: 1-3

Research issues and problems growing from special areas of a student's interest which may require additional depth or breadth of study. Student's proposal and outline of study must be approved prior to enrolling. May be repeated to a maximum of six hours. May be taught concurrently with FIN 596. Cannot receive credit for more than six hours of FIN 596 and FIN 697 combined.

Prerequisite: permission of department head.

Typically Offered: Demand

FIN 698 - Financial Research and Portfolio Management

Credit Hours: 3

An introduction to finance industry research tools and the use of those tools to conduct in-depth security analysis and portfolio management. The course emphasizes more advanced security analysis and portfolio management techniques, aided by the use of industry accepted research tools. May be taught concurrently with FIN 598. Cannot receive credit for both FIN 598 and FIN 698.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

FIN 699 - Directed Study for CFA Level I Exam

Credit Hours: 3

The professor and student will devise a study plan, based upon the CFA Institute's Common Body of Knowledge, that will best-prepare the student to pass the CFA Level I Exam in June of the current year. May be taught concurrently with FIN 599. Cannot receive credit for both FIN 599 and FIN 699.

Prerequisite: permission of instructor.

Typically Offered: Spring

FIN 780 - Advanced Financial Management

Credit Hours: 3

An advanced study of the theory and practice of corporate financial management, including financial analysis and forecasting, working capital, capital budgeting, cost of capital, capital structure, mergers and acquisitions, and valuation. The course utilizes cases to emphasize both theory and technology in supporting sound financial decision-making.

Prerequisite: ACC 711; and B- grade or better in FIN 600; and admission to the MBA program, or admission to a graduate certificate program within the Finance and Risk Management Department, or permission from the MBA Program Director or a director of a graduate program within the College of Business.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

FIN 787 - Seminar in Derivatives

Credit Hours: 3

A study of the fundamentals, pricing, and trading strategies of options, forwards, futures and swaps. Emphasis is placed on the modeling tools most widely used for calculating their prices and related hedging parameters. The course includes an exploration of current/relevant literature concerning market mechanics, participants, and government regulation. Each student will participate in the preparation of a significant team project and presentation.

Prerequisite: FIN 780.

Lecture Contact Hours: 3

Typically Offered: Spring

FIN 788 - Healthcare Financial Management

Credit Hours: 3

An introduction to fundamental financial management concepts and skills necessary for managers at a variety of levels in healthcare organizations. The course provides an overview of financial management and how the finance function is organized in healthcare organizations. Topics covered include: time value of money, risk and return, asset valuation, capital budgeting, financial analysis, costs of capital, and working capital management.

Prerequisite: ACC 688.

Lecture Contact Hours: 3

Typically Offered: Spring

FIN 790 - Seminar in Finance

Credit Hours: 3

Critical evaluation and interpretation of research and literature in finance.

Prerequisite: 15 graduate hours in business administration and economics including FIN 780 and permission of the coordinator of graduate studies.

Lecture Contact Hours: 3

Typically Offered: Summer

FIN 792 - International Education Abroad in Finance

Credit Hours: 3

Offered in conjunction with an international Education Abroad program, this course consists of three parts; 1. Background research and discussion on selected companies and institutions in one or more international locations to be visited. This will focus primarily on financial aspects of companies and institutions, but will also address the economic, political, global, historical, social, ethical, and cultural environment in which they function. 2. A visit, typically of seven days or longer, to the international destination(s) to explore the culture and visit companies, institutions, and cultural icons. 3. A final written project and discussion of the experience. The course involves research, written and oral reporting and presentations with graduate-level proficiency. Group interaction based upon trust, respect, and integrity are required.

Prerequisite: B- or better in FIN 380 or FIN 600; acceptance into the related Education Abroad program; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

FIN 794 - Internship: Finance

Credit Hours: 3

In consultation with the coordinating professor, the student is engaged in on-the-job experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

Prerequisite: permission of the director of the appropriate graduate program and department head.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

FIN 795 - Domestic Field Experience in Finance

Credit Hours: 3

Offered in conjunction with an domestic field experience through the Office of Education Abroad, the course consists of three parts; 1. Background research and discussion of selected companies and institutions of one or more major U.S. financial center(s) (e.g. New York) and the economic, political, international, historical, social, ethical, and cultural environment in which they function. 2. A visit of approximately seven days' duration to the financial center(s) to visit selected companies, financial markets, and cultural icons. 3. A final written project and group discussion of the experience. The course involves extensive research, written and oral reporting, and group interaction based upon trust, respect and integrity.

Prerequisite: B- or better in FIN 380 or FIN 600; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

FIN 796 - Independent Study: Finance

Credit Hours: 1-3

In consultation with the advisor, student selects for intensive study a specific area of concern related to the student's program with emphasis on research.

Prerequisite: permission of the director of the appropriate graduate program and department head.

Typically Offered: Demand

FIN 799 - Directed Study for CFA Level II Exam

Credit Hours: 3

The professor and student will devise a study plan, based upon the CFA Institute's Common Body of Knowledge, that will best-prepare the student to pass the CFA Level II Exam in June of the current year.

Prerequisite: permission of instructor and successful completion of the CFA Level I exam.

Lecture Contact Hours: 3

Typically Offered: Demand

French

FRN 610 - Advanced Translation

Credit Hours: 3

This course builds on the translation skills acquired in prior coursework, centering on comparative study of French and English in the domains of syntax, stylistics and pragmatics, and their practical application in translation. May be taught concurrently with FRN 510. Cannot receive credit for both FRN 510 and FRN 610.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

FRN 624 - Advanced Topics in Francophone Linguistics

Credit Hours: 3

This graduate seminar focuses on specific issues in Francophone linguistics. Topics may include the study of French in its social and political contexts, French phonetics and phonology, French syntax and morphology, language variation and change in the French-speaking world, historical perspectives, and developments in theoretical and applied French linguistics. May be taught concurrently with FRN 524. Cannot receive credit for both FRN 524 and FRN 624.

Prerequisite: ENG 691 or LCR 691 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall Even

FRN 690 - Advanced French Grammar

Credit Hours: 3

Students improve their mastery of complex grammatical features in French through the analysis of authentic spoken and written texts. Through iterative processes of text development, they will produce advanced narratives on different themes. They will also explore theories pertaining to the acquisition of language structures, and related approaches to teaching grammar to second-language learners. May be taught concurrently with FRN 590. Cannot receive credit for both FRN 590 and FRN 690.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

FRN 725 - Seminar in Francophone Literature and Culture**Credit Hours:** 3

This course will enhance students' language proficiency and cultural competence through the interpretation and analysis of selected literary, philosophical, and cultural texts from the Francophone tradition. Variable content course. May be repeated once with changed content.

Lecture Contact Hours: 3

Typically Offered: Demand

FRN 735 - Advanced French Proficiency**Credit Hours:** 3-12

This course designation is used to grant credit for prior learning on the basis of established proficiency assessments. No more than three hours of FRN 735 credit may be applied toward the requirements of any master's program or certificate.

Typically Offered: Demand

Geospatial Sciences**GEO 651 - Remote Sensing****Credit Hours:** 3

Introduction to environmental studies through the application of remotely sensed imagery and geospatial technologies. The course covers principles of remote sensing, interactions of electromagnetic energy with the atmosphere and earth's surface, satellite systems and sensors (electro-optical, thermal, radar and LiDAR). Emphasis is placed on regional and global monitoring, land cover mapping, forestry, agriculture, geology, planning and oceanography. Laboratory emphasizes interpretation of remotely sensed imagery and introduction to digital image processing including enhancements, corrections and classification routines. May be taught concurrently with GEO 551. Cannot receive credit for both GEO 551 and GEO 651.

Recommended Prerequisite: GEO 360.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GEO 657 - Fundamentals of Geospatial Science

Credit Hours: 3

This course is designed for graduate students who have limited background in Geospatial Science, or whose skills need refreshed, but wish to take graduate-level Geospatial Science courses. As such, this course uses a series of self-paced modules to provide students with the fundamental knowledge of the theory and software related to geographic information systems and remote sensing and will prepare them to succeed in other graduate-level GEO courses that have GEO 360 or GEO 363 as recommended prerequisites.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

GEO 661 - Applied Geographic Information Science

Credit Hours: 3

Principles and applications of Geographic Information Systems (GIS) software. Examines the nature and accuracy of spatially referenced data, as well as methods of data capture, storage, retrieval, visualization and output. This course will emphasize the application of GIS to solving geospatial problems in various disciplines. May be taught concurrently with GEO 561. Cannot receive credit for both GEO 561 and GEO 661.

Recommended Prerequisite: GEO 363 or permission of instructor.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GEO 662 - Internet Geospatial Science

Credit Hours: 3

Basic understanding of the contemporary standards for using the internet to distribute and utilize geospatial data. Students will set up and maintain a WebGIS server, design maps, and publish maps to the WebGIS server. A major part of the course will examine the development of WebGIS applications that utilize the published WebGIS services. May be taught concurrently with GEO 562. Cannot receive credit for both GEO 562 and GEO 662.

Recommended Prerequisite: GEO 561 or GEO 661.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

GEO 666 - Advanced Geographic Information Science

Credit Hours: 3

A theoretical and practical examination of analytical methods used in GIS, including point pattern/clustering analysis, global and local spatial autocorrelation, analysis of fields, spatial interpolation, map overlay and cartographic modeling, and new approaches to spatial analysis. May be taught concurrently with GEO 566. Cannot receive credit for both GEO 566 and GEO 666.

Recommended Prerequisite: GEO 561 or GEO 661.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

GEO 668 - Geovisualization

Credit Hours: 3

Visualization of geographic data and analysis is becoming increasingly important for communicating and understanding the environment and society. This course will focus on using novel geovisualization techniques and tools to bring visualization of geographic data and analysis to life. May be taught concurrently with GEO 568. Cannot receive credit for both GEO 568 and GEO 668.

Recommended Prerequisite: GEO 363.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

GEO 669 - Landscape Analysis

Credit Hours: 3

A project-based exploration of geospatial methods and processing techniques for the analysis, modeling, and prediction of hydrologic and geomorphic processes at various landscape scales. An emphasis will be placed on the applications of digital elevation models, remotely sensed data, and modeling techniques to understand landscape processes of interest to fields such as geology, physical geography, agriculture, soils, ecological systems, and archaeology. May be taught concurrently with GEO 569. Cannot receive credit for both GEO 569 and GEO 669.

Recommended Prerequisite: GEO 363 or GEO 657.

Lecture Contact Hours: 1 Lab Contact Hours: 2

Typically Offered: Fall Even

GEO 672 - Introduction to Photogrammetry and LiDAR Technology

Credit Hours: 3

Course covers basic concepts of photogrammetry and LiDAR techniques such as stereo feature extraction, orthophoto, LiDAR point cloud visualization and DEM/DTM generation. Laboratory emphasizes geospatial stereo feature extraction using digital photogrammetry software, ArcGIS and Matlab toolboxes. May be taught concurrently with GEO 572. Cannot receive credit for both GEO 572 and GEO 672.

Recommended Prerequisite: GRY 360.

Lecture Contact Hours: 1 Lab Contact Hours: 4

Typically Offered: Spring

GEO 673 - Geographic Information Science Programming

Credit Hours: 3

Course devoted to theories and processes of analytical and automated Geographic Information Science (GIS). Principal topics covered are spatial programming, geographic data storage, computer map rendering, application customization and automation and human interface development of GIS. Advanced GIS and programming skills for professional development are emphasized. May be taught concurrently with GEO 573. Cannot receive credit for both GEO 573 and GEO 673.

Recommended Prerequisite: GEO 561 or GEO 661, and either ITC 202 or CSC 121 or CSC 125.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

GEO 675 - GPS Surveying and Mapping

Credit Hours: 3

Theory and operation of global positioning systems (GPS) hardware and software. Including mission planning, measurement of point, line and area features, differential correction techniques and waypoint navigation. Field exercises required. May be taught concurrently with GEO 575. Cannot receive credit for both GEO 575 and GEO 675.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring

GEO 678 - Remote Sensing Digital Image Processing

Credit Hours: 3

Advanced application of remote sensing digital image processing in areas of interest such as land use/land cover mapping, agriculture, forestry, resource planning and geology. Course covers image visualization, image correction, classification algorithms and change detection methods. Laboratory emphasizes advanced image processing techniques using ENVI software. May be taught concurrently with GEO 578. Cannot receive credit for both GEO 578 and GEO 678.

Prerequisite: GEO 551 or GEO 651 or GEO 566 or GEO 666 or GEO 572 or GEO 672.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

GEO 697 - Topics in Geospatial Science

Credit Hours: 1-4

Detailed treatment of a selected topic in Geospatial Science that may vary from offering to offering. Variable content course. May be repeated to a maximum of seven hours. May be taught concurrently with GEO 597. Cannot receive credit for the same topic in both GEO 597 and GEO 697.

Prerequisite: permission.

Typically Offered: Demand

GEO 700 - Introduction to Graduate Study in Geography, Geology and Planning

Credit Hours: 3

This course serves as a foundation for students pursuing a graduate degree in the School of Earth, Environment and Sustainability. First-semester graduate students are introduced to the research interests of the school's faculty, are guided in effective strategies for conducting a literature search and are mentored in the effective development of a research proposal.

Lecture Contact Hours: 3

Typically Offered: Fall

GEO 701 - Graduate Research Methods in Geography, Geology and Planning

Credit Hours: 3

Methods of collecting, organization, and analyzing data pertinent to graduate study in geography, geology and planning. Emphasis will be on the application of univariate and multivariate statistical techniques and other quantitative techniques pertinent to mathematically and statistically modeling problems in geography, geology and planning.

Prerequisite: GEO 700.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GEO 705 - Geography, Geology, and Planning Seminar

Credit Hours: 1

This course consists of a series of oral presentations to be made by faculty members, students, and guest speakers from industry, academe and government on new developments in geography, geology or planning. Graded Pass/Not Pass only. May be repeated to a maximum of three hours.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

GEO 755 - Applications of Digital Cartography, Analytical Photogrammetry, and Remote Sensing

Credit Hours: 1-3

Advanced application of aerial photography and digital imagery, analytical photogrammetry, remote sensing, digital cartography and other geospatial technologies in areas of interest such as land use/land cover mapping, landscape ecology, agriculture, forestry, resource planning, geology, and soils. Since credit and topics vary, the course may be repeated to a maximum of seven hours with permission.

Prerequisite: permission.

Typically Offered: Demand

GEO 770 - Advanced Field and Laboratory Methods

Credit Hours: 3

Advanced training in laboratory and field methods in geography and geology. Topics will vary due to faculty expertise or student interest. Examples include watershed monitoring techniques, geochemical techniques, and field studies in remote areas. Field trips are required.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

GEO 780 - Research Paper in Geospatial Sciences

Credit Hours: 3

Extensive research paper on selected topic to be presented orally at a school seminar or professional meeting. Exclusively used to satisfy requirements for non-thesis option.

Prerequisite: permission.

Typically Offered: Demand

Gerontology

GER 697 - Special Topics in Gerontology

Credit Hours: 1-3

In-depth inquiry into selected interdisciplinary topics of contemporary interest in gerontology. Variable content course. May be repeated to a maximum of six hours when topic changes. May be taught concurrently with GER 597. Cannot receive credit for both GER 597 and GER-697.

Recommended Prerequisite: 12 hours of Gerontology.

Typically Offered: Demand

Geology

GLG 615 - Invertebrate Paleontology

Credit Hours: 4

Morphology and taxonomy of invertebrate fossils. May be taught concurrently with GLG 415. Cannot receive credit for both GLG 415 and GLG 615.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Spring Odd

GLG 623 - Coastal Marine Geology

Credit Hours: 2

A study of inshore and nearshore geologic processes, sedimentation patterns and landform development. Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with GLG 523. Cannot receive credit for both GLG 523 and GLG 623.

Prerequisite: permission; and concurrent enrollment in GLG 624.

Corequisite: GLG 624

Lecture Contact Hours: 2

Typically Offered: Summer

GLG 624 - Coastal Marine Geology Lab**Credit Hours:** 1

Laboratory portion of GLG 623. Field and laboratory activities. Must be taken at Gulf Coast Research Laboratory, Ocean Springs, Mississippi. May be taught concurrently with GLG 524. Cannot receive credit for both GLG 524 and GLG 624.

Prerequisite: concurrent enrollment in GLG 623.

Corequisite: GLG 623

Lab Contact Hours: 2

Typically Offered: Summer

GLG 630 - Optical Mineralogy**Credit Hours:** 3

Essentials of optical crystallography; the use of the petrographic microscope in the identification of rock-forming minerals, both in oil-immersion grain mounts and in thin sections. May be taught concurrently with GLG 530. Cannot receive credit for both GLG 530 and GLG 630.

Recommended Prerequisite: GLG 333.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

GLG 640 - X-Ray Mineralogy**Credit Hours:** 3

Principles and techniques of x-ray mineralogy; the use of x-ray powder diffraction in the identification and characterization of minerals and related crystalline phases. May be taught concurrently with GLG 540. Cannot receive credit for both GLG 540 and GLG 640.

Recommended Prerequisite: GLG 332.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

GLG 647 - Water Resources

Credit Hours: 3

An interdisciplinary study of freshwater resource development, including environmental impacts of humans on hydrology and water quality, conflicts among users, and politics at local and global scales. Identical with BIO 647. Cannot receive credit for both BIO 647 and GLG 647. May be taught concurrently with GLG 547. Cannot receive credit for both GLG 547 and GLG 647.

Recommended Prerequisite: BIO 122 or GLG 113 or GLG 114 or GLG 115 or GRY 145.

Lecture Contact Hours: 3

Typically Offered: Spring

GLG 670 - Principles of Stratigraphy

Credit Hours: 3

Principles and procedures applied to the study of sedimentary successions; astronomical forcing, cyclicity, eustasy, and tectonic controls on stratification and basin evolution; application of the Stratigraphic Code, practical field methods, observations and interpretation of depositional environments, and sequence stratigraphic interpretations; field trips required. May be taught concurrently with GLG 570. Cannot receive credit for both GLG 570 and GLG 670.

Recommended Prerequisite: GLG 314 and GLG 334.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

GLG 672 - Geohydrology

Credit Hours: 3

Aquifer properties; elementary theory of groundwater flow through a porous medium; well and aquifer relationships. Laboratories include ground-water case studies and Hydrologic Investigation Atlas interpretations. Field trips required. May be taught concurrently with GLG 572. Cannot receive credit for both GLG 572 and GLG 672.

Recommended Prerequisite: GLG 314; and either MTH 261 or MTH 287.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GLG 673 - Engineering Geology

Credit Hours: 3

Engineering properties of rocks and soils; fundamentals of engineering geology field investigations; application of properties and fundamentals to engineering problems concerning slope stability, groundwater, industrial contamination, urban public works, and karst areas. Laboratories include engineering classification of soils, hydraulic conductivity testing, and public works design and management. Field trip to observe engineering problems of karst required. May be taught concurrently with GLG 573. Cannot receive credit for both GLG 573 and GLG 673.

Recommended Prerequisite: GLG 333.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring Even

GLG 674 - Petroleum Geology

Credit Hours: 3

Origin of hydrocarbons in sedimentary successions; petroleum systems, sequence stratigraphic concepts; basin analysis; petroleum exploration techniques, including well log and seismic interpretation; techniques for resource exploitation and an introduction to petroleum production. May be taught concurrently with GLG 574. Cannot receive credit for both GLG 574 and GLG 674.

Recommended Prerequisite: GLG 314 and GLG 333 and GLG 570.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

GLG 676 - Geoscience Computing

Credit Hours: 3

This course will explore the dynamic relationships between Earth systems and introduce students to techniques to create map products and Earth system models using surficial and subsurface geologic data. Mapping and modeling topics will include: heat flow, geologic bedrock mapping, geochemical data processing, fluid mechanics, well data, subsurface geologic data interpretation, and seismic attribute analysis. Students will explore these topics and characterize their behavior by building theoretical Earth system models to test map-based hypotheses.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

GLG 680 - Geochemistry

Credit Hours: 3

Topics include the dominant chemical reactions in natural waters, equilibrium conditions between mineral precipitation and dissolution, and characteristics of contaminated groundwater. Field trips required. May be taught concurrently with GLG 580. Cannot receive credit for both GLG 580 and GLG 680.

Recommended Prerequisite: GLG 332.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

GLG 681 - Geochemical Techniques

Credit Hours: 3

A theoretical and practical overview of a range of geochemical tools used on geologic materials and practical hands-on experience of the procedures required to produce geochemical data. Students will use computer programming and its application to data analysis using geochemical examples. Field trips required. May be taught concurrently with GLG 581. Cannot receive credit for both GLG 581 and GLG 681.

Recommended Prerequisite: GLG 333.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GLG 690 - Applied Geophysics**Credit Hours:** 3

Application of geophysical methods in solving geologic problems. Techniques covered include seismic refraction and reflection, gravity, magnetics, direct current and electromagnetic resistivity. Field trips required. May be taught concurrently with GLG 590. Cannot receive credit for both GLG 590 and GLG 690.

Recommended Prerequisite: GLG 340; and either PHY 124 or PHY 204; and either MTH 280 or MTH 288.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GLG 691 - Seismic Data Processing**Credit Hours:** 3

The basic techniques to process seismic reflection data as used for tectonic, oil, environmental and mining applications. Techniques include deconvolution, filtering, migration, stacking, normal moveout corrections. Basic seismic reflection interpretation will be addressed. This is a computer based class. May be taught concurrently with GLG 591. Cannot receive credit for both GLG 591 and GLG 691.

Prerequisite: GLG 340 (or permission); and either PHY 124 or PHY 204 or concurrent enrollment in either; and either MTH 280 or MTH 288 or concurrent enrollment in either.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring Even

GLG 697 - Selected Topics in Geology**Credit Hours:** 1-5

Detailed treatment of various advanced topics in geology which may vary from year to year. Some typical topics: geologic instrumentation, selenology, sedimentology, and crystallography. Variable content course. May be repeated to a maximum of six hours. May be taught concurrently with GLG 597. Cannot receive credit for both GLG 597 and GLG 697.

Prerequisite: permission.

Typically Offered: Demand

GLG 701 - Geosystems

Credit Hours: 3

A study of rocks and minerals, plate tectonics, geological internal processes (volcanoes, earthquakes), geologic history, geologic time, and surface processes (rivers, karst, soils). Note: students with an undergraduate degree in geology may not count this course toward their degree requirement in the Geography and Geology master's program or towards the geology emphasis in the Master of Natural and Applied Science program.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Demand

GLG 702 - Geology for Secondary Teachers II

Credit Hours: 3

Continuation of GLG 701.

Prerequisite: GLG 701.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

GLG 713 - Field Geology for Secondary Teachers

Credit Hours: 1-3

Field work; identification and correlation of rock units; determination of depositional environments from fossils and other indicators. Students are required to make a collection of specimens from rock formations in the study area. May be repeated to a maximum of six hours when destination varies.

Prerequisite: permission.

Typically Offered: Demand

GLG 715 - Isotope Geochemistry

Credit Hours: 3

Topics include the application of radiogenic, radioactive and stable isotopes to the processes and timescales relevant to the formation of the planet and solar system, the evolution of the Earth system and interactions in the hydrosphere and biosphere. Course consists of lecture and seminar section, where students are exposed to these applications and discuss relevant papers from the literature. A semester long project using geochronology and isotope geochemistry data is required.

Lecture Contact Hours: 3

Typically Offered: Fall Even

GLG 751 - Seminar in Geology

Credit Hours: 2

Preparation of an extensive paper on selected topics to be read before staff seminars.

Prerequisite: permission.

Lecture Contact Hours: 2

Typically Offered: Demand

GLG 765 - Selected Topics in Earth Science**Credit Hours:** 1-3

Students cooperatively select from general subject areas in earth science more specific areas to explore. Topics are studied consecutively during the semester. Subject areas from which the topic selections are made are included in the class schedule for each term the course is offered. Variable content course. Since topics vary, the course may be repeated to a maximum of six hours. Identical with GRY 740. Cannot receive credit for more than 6 hours of GLG 755 and GRY 740 combined.

Prerequisite: permission.

Typically Offered: Demand

GLG 779 - Research/Geological Sciences**Credit Hours:** 1-3

Original research supervised by the geology staff, involving special areas of the geological sciences. May be repeated to a maximum of three hours.

Prerequisite: permission.

Typically Offered: Demand

GLG 782 - Contaminant Hydrology**Credit Hours:** 3

Geochemical principles applied to solve environmental problems effecting surface water and groundwater. Case studies in groundwater geochemistry, medical geology, and mining geology. Geostatistics (ArcGIS, SPSS) and geochemical modeling (MINTEQ) tools used.

Recommended Prerequisite: undergraduate background in both geology and chemistry.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring Odd

GLG 794 - Global Tectonics**Credit Hours:** 3

The fundamental basis of plate tectonics. Topics covered include geophysical methods, plate motion theory, fundamental properties of plate boundaries, formation of sedimentary basins and orogenic belts.

Recommended Prerequisite: GLG 314.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

GLG 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (80 hours/credit hour) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the school and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

GLG 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission.

Typically Offered: Demand

Graduate College

GRD 796 - Variable Topics in University Teaching for GAs and TAs

Credit Hours: 1

In-depth study of scholarly teaching and the scholarship of teaching and learning at the university level. Variable topics course. May be repeated to a maximum of three hours if topic varies.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

Geography

GRY 607 - Geography of Sub-Saharan Africa

Credit Hours: 3

An in-depth geographic study of Africa south of the Sahara Desert. Surveys physical and political geography, climate, tribalism, religion, demography, natural resources, transportation, industry and economic activities of African states South of the Sahara. Students are required to complete two research projects. May be taught concurrently with GRY 507. Cannot receive credit for both GRY 507 and GRY 607.

Lecture Contact Hours: 3

Typically Offered: Demand

GRY 608 - The Philosophy of Geosustainability

Credit Hours: 3

This discussion and inquiry-based course provides students increased understanding in the historical and philosophical underpinnings of sustainability. Emphasis is placed evenly on social, economic and environmental factors and how they all contribute to present day applications of sustainability in varying contexts such as policy, business, and development. Special emphasis is placed on how sustainability intersects with conservation, preservation, economic and social development, and the United Nations Sustainable Development Goals (SDGs). May be taught concurrently with GRY 508. Cannot receive credit for both GRY 508 and GRY 608.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

GRY 610 - Applications in Sustainable Geotourism

Credit Hours: 3

This course will introduce some of the key concepts and methods used to investigate and make sense of the role, significance and impact of tourism that sustains or enhances the geographical character of a place--its environment, culture, aesthetics, heritage, and the well-being of its residents. Students will explore environmentally and socially responsible tourism strategies and innovations, and study issues associated with tourism development. Students will work to develop a tourism policy and plans based on geotourism parameters where ideas may be applied in a practicum to a local, regional or national community. May be taught concurrently with GRY 510. Cannot receive credit for both GRY 510 and GRY 610.

Lecture Contact Hours: 3

Typically Offered: Spring

GRY 625 - Environmental Hazards

Credit Hours: 3

Identification, recognition, and impact of hazards. Physical exposure to hazards and human vulnerability in LDCs and MDCs. Disaster trends and patterns. Behavioral and structural paradigms of hazards. EM-DAT: international disaster database. Statistical methods used in risk assessments. Risk perception, communication, and disaster management. Tectonic, mass movement, atmospheric, hydrological, biophysical, and technological hazards: analysis, preparedness, and mitigation. May be taught concurrently with GRY 525. Cannot receive credit for both GRY 525 and GRY 625.

Recommended Prerequisite: GRY 145 and GRY 146; or GRY 137 and GRY 138; and GLG 113 or GLG 114.

Lecture Contact Hours: 3

Typically Offered: Demand

GRY 635 - Global Climate and Weather Cycles

Credit Hours: 3

Energy and mass exchanges. Global atmospheric circulation; surface and upper-air flows. Index cycle: zonal and meridional atmospheric circulations. Teleconnections and atmospheric oscillations: NAO, PNA, PDO, AO, ENSO, and AMO. Interactions between atmospheric oscillations and surface climatic variables in the United States and around the world. Weather cycles, natural climatic variability and climate change. Drought indices. Spatial and temporal statistical domains used in climatic data analysis. May be taught concurrently with GRY 535. Cannot receive credit for both GRY 535 and GRY 635.

Recommended Prerequisite: GRY 137 and GRY 138; and MTH 340 or AGR 330 or ECO 308 or PSY 200 or QBA 237 or REC 328 or SOC 220.

Lecture Contact Hours: 3

Typically Offered: Demand

GRY 645 - Global Environmental Change**Credit Hours:** 3

Energy and mass fluxes and storages in the interlinked physical components of the ecosphere. Chemistry of the global atmosphere. Role of the oceans and thermohaline circulation. Land use and land cover influences on terrestrial ecosystems. Concepts of environmental cycles, thresholds, resilience, recovery and response times. Understanding past environmental changes. Causes, mechanisms and likely impacts of natural and anthropogenically-induced changes on the global environment. Predictive models on global environmental change. May be taught concurrently with GRY 545. Cannot receive credit for both GRY 545 and GRY 645.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

GRY 649 - Sustainable Landform Management**Credit Hours:** 3

A study of the earth's landforms focusing on the scientific understanding of the landform development processes integrating management practices and sustainability. Emphasis is placed on the role of humans as a geomorphic agent in the 21st century and the need for a sustainable approach towards landform management. May be taught concurrently with GRY 549. Cannot receive credit for both GRY 549 and GRY 649.

Recommended Prerequisite: GRY 145 and 146; or GLG 113 or GLG 114 and GLG 116.

Lecture Contact Hours: 3

Typically Offered: Spring Even

GRY 650 - Fluvial Geomorphology**Credit Hours:** 3

Study of the formation, composition, distribution of fluvial landforms. Emphasis is on channel hydrology, quantification of geomorphic relationships, reach and watershed-scale processes, sediment transport, water and sediment contamination, and management applications to streams in the Ozarks Region as well as other places. Field work may be required. May be taught

concurrently with GRY 550. Cannot receive credit for both GRY 550 and GRY 650.

Lecture Contact Hours: 3

Typically Offered: Spring

GRY 695 - Graduate Internship in Geography and Sustainability

Credit Hours: 1-3

Internship work experience related to an approved geography and sustainability topic in a professional setting. Students are mentored by a faculty member and by supervisory personnel of the employing organization. May be repeated to a maximum of 6 hours.

Typically Offered: Fall, Spring, Summer

GRY 696 - Topical Issues in Education

Credit Hours: 1-5

Selected topics in geography and earth science to upgrade understandings and skills in improvement of elementary or secondary teaching. Variable content course. Each class is concerned with a single topic or subject matter area. Number of class hours determined by semester hours of credit. May be repeated to a maximum of five hours. May be taught concurrently with GRY 596. Cannot receive credit for both GRY 596 and GRY 696.

Prerequisite: permission.

Typically Offered: Demand

GRY 697 - Special Topics in Geography

Credit Hours: 1-5

Selected topics in geography. Special topics will be included in the class schedule for each term. Field trips may be required. Variable content course. Number of class hours determined by semester hours of credit. May be repeated to a maximum of six hours. May be taught concurrently with GRY 597. Cannot receive credit for both GRY 597 and GRY 697.

Prerequisite: permission.

Typically Offered: Demand

GRY 698 - Research in Geography

Credit Hours: 1-3

Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated to a maximum of six hours.

Prerequisite: permission.

Typically Offered: Fall, Spring

GRY 700 - Cultural Geography for Secondary Teachers I

Credit Hours: 3

Population and the spatial imprint of man on the landscape in terms of settlement, economic activities, institutions; methods and materials of the high school geography project; other current curriculum materials.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

GRY 703 - Cultural Geography for Secondary Teachers II**Credit Hours: 3**

Continuation of GRY 700. Contemporary problems in land use, urbanization and planning for optimum use of resources; methods and materials of the high school geography project; other current curriculum materials.

Prerequisite: GRY 700.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

GRY 730 - Weather Elements for Secondary Teachers**Credit Hours: 3**

Physical processes of the earth's atmosphere, use of weather instruments and interpretation of weather maps. Applied aspects of weather and climate and their effects on man's activities. Emphasis on current curriculum materials for secondary schools.

Lecture Contact Hours: 3

Typically Offered: Demand

GRY 731 - Environmental Assessment**Credit Hours: 3**

The procedures and processes of environmental assessment. Soils, hydrology, climate, biogeography and geomorphology will be examined in an environmental assessment context. Environmental assessment is a prerequisite for satisfying the National Environmental Policy Act (NEPA) requirements.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

GRY 740 - Selected Topics in Earth Science**Credit Hours: 1-3**

Students cooperatively select from general subject areas in earth science more specific areas to explore. Topics are studied consecutively during the semester. Variable content course. Subject areas from which the topic selections will be made are included in the class schedule for each term the course is offered. May be repeated to a maximum of six hours. Identical with GLG 765. Cannot receive credit for more than six hours of GRY 740 and GLG 765.

Prerequisite: permission of instructor.

Typically Offered: Demand

GRY 748 - Physiography and Resource Conservation

Credit Hours: 3

Landforms, economic minerals, soils, climate, water resources and closely related aspects of the natural environment as they relate to man's inhabitation and use of the earth; map reading and simple map construction; methods and materials for secondary schools.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

GRY 751 - Topics in Advanced Physical Geography

Credit Hours: 3

Critical review of recent advances and trends in applied and/or theoretical physical geography. Course will involve the study of seminal and recent journal articles and presentation of a research paper. Course content may vary among the subfields of physical geography including geomorphology, hydrology, water resources, soil geography climatology, and biogeography. Field trips may be required.

Lecture Contact Hours: 3

Typically Offered: Demand

GRY 779 - Research in Geography

Credit Hours: 1-3

Enrichment through guided but independent, original research in geography and geography related subject areas. May be repeated to a maximum of three hours.

Prerequisite: permission.

Typically Offered: Demand

GRY 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission.

Typically Offered: Fall, Spring

Graduate Interdisciplinary

GIP 700 - Contemporary Issues in Professional Studies

Credit Hours: 3-6

In the rapidly changing landscape of the modern workplace, professionals must stay informed about the myriad of challenges and opportunities that arise. This course provides students with a comprehensive understanding of the most pressing issues facing today's professionals. This variable topic course designed to ensure that students are well-prepared to navigate the complexities of the 21st-century professional environment. Variable content course. May be repeated to a maximum of six hours.

Prerequisite: permission of the director of the Master of Professional Studies program.

Lecture Contact Hours: 3-6

Typically Offered: Fall Even, Spring Odd, Summer

GIP 701 - Contemporary Commercial Challenges: Navigating the Modern Landscape**Credit Hours:** 3

This is an introductory course to the rapidly evolving global commercial environment, staying providing an understanding of the myriad challenges that contemporary enterprises face. This course looks into the multifaceted world of modern commerce, offering a general examination of the pressing issues that shape today's professional decisions. From the complexities of human resources and the advent of cutting-edge technologies to the intricacies of international trade and ethical dilemmas, students will gain a broad understanding of the modern commercial arena.

Prerequisite: permission of the director of the Master of Professional Studies program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

GIP 750 - Talent Acquisition: Strategies and Compliance in Modern Hiring**Credit Hours:** 3

In today's competitive business environment, the ability to effectively and efficiently attract, select, and onboard the right talent can significantly impact organizational success. This course offers students an in-depth exploration into the multifaceted realm of Talent Acquisition, emphasizing the importance of aligning hiring strategies with organizational needs. Through a combination of lectures, case studies, interactive discussions, and real-world exercises, students will master key components of the talent acquisition process.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer, Demand

Health Care Management**HCM 604 - Health Care Economics****Credit Hours:** 3

A basic study of the major economic issues facing the health care industry. Emphasis will be placed on the major elements of economic theory from a micro-economic perspective and how these theories are applied in the area of health care. Identical with ECO 604. Cannot receive credit for both HCM 604 and ECO 604. May be taught concurrently with HCM 504. Cannot receive credit for both HCM 504 and HCM 604.

Recommended Prerequisite: ECO 165 or AGB 144.

Lecture Contact Hours: 3

Typically Offered: Fall

Health

HLH 640 - Social/Behavioral Health

Credit Hours: 3

This course will introduce students to the basic foundational principles of social and behavioral health. Students will be exposed to the differences between public, community and individual health, frameworks to both understand and address health issues, social determinants of health and behavior change theory with a focus on interprofessional cultural competence. May be taught concurrently with IPE 540. Cannot receive credit for both IPE 540 and HLH 640.

Lecture Contact Hours: 3

Typically Offered: Fall

HLH 682 - Motivational Interviewing for Health Professionals

Credit Hours: 3

This is an advanced level course for students who have had an introduction into health behavior theories and are interested in working in the health field. Course content will include an exploration into the attitudes and motivations of personal health behavior and an in-depth exploration of motivational interviewing principles and applications. May be taught concurrently with HLH 582. Cannot receive credit for both HLH 582 and HLH 682.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

HLH 710 - Introduction to Health Promotion and Wellness Management

Credit Hours: 3

This is an introductory course in which students will gain a general understanding of the health promotion and wellness management (HPWM) field. The job opportunities, history, mission, terminology, philosophy, ethical principles, organizations, concepts and foundations of HPWM will be explored.

Lecture Contact Hours: 3

Typically Offered: Fall

HLH 750 - Programming Approaches in Wellness/Health Promotion

Credit Hours: 3

Organizational and administrative approaches utilized in the conduct of wellness/health promotion programs will be studied. Emphasis will be placed upon the selection, development, promotion, conduct, and evaluation of the various components of wellness/health promotion programs.

Lecture Contact Hours: 3

Typically Offered: Spring

HLH 752 - Health Risk Identification and Management

Credit Hours: 3

Procedures and instrumentation utilized in the identification and assessment of risk factors associated with cardiovascular and other major life-style generated diseases and conditions will be studied. Emphasis will be placed upon the utilization of risk factor data in the conduct of a wellness/health promotion program.

Lecture Contact Hours: 3

Typically Offered: Spring

HLH 760 - Health Promotion Planning

Credit Hours: 3

A culminating course in the MS in Health Promotion and Wellness Management degree program. This course will focus on the development of health promotion in the workplace: Topics discussed will include effects of health promotion, the compression of morbidity, developing awareness strategies, health assessments, theories of health behavior (self-efficacy, social learning theory, health belief model, theory of planned behavior, stages of change theory), and evaluating existing workplace health promotion programs (physical activity in the workplace, worksite nutrition programs, worksite weight management, tobacco control and cessation, and stress management). The current professional literature related to health promotion will also be reviewed.

Lecture Contact Hours: 3

Typically Offered: Spring

HLH 770 - Seminar in Health Promotion and Wellness Management

Credit Hours: 3

Review of the professional literature relating to current issues in health promotion and wellness. Topics researched and discussed include health care ethics, diversity, cultural aspects, long-range planning, public relations, legal considerations, and grant-writing. Includes guided development and completion of an extensive research paper.

Lecture Contact Hours: 3

Typically Offered: Spring

HLH 791 - Wellness Internship

Credit Hours: 1-6

Supervised field experience in a health promotion or health care setting. Directly involves the student in the application of

organizational skills and wellness manager skills. Student must complete a minimum number of clinical hours. May be repeated.

Prerequisite: permission of Health Internship Coordinator.

Typically Offered: Fall

HLH 799 - Thesis

Credit Hours: 1-3

Independent research and study connected with the preparation of a thesis. May be repeated but no more than six hours may be counted toward degree.

Prerequisite: HLH 700 or equivalent; and KIN 705 or PBH 730 or equivalent; and permission of graduate coordinator of Health Promotion and Wellness Management program.

Typically Offered: Fall, Spring, Summer

Hospitality Leadership

HSP 710 - Risk Management and Legal Compliance in the Hospitality Industry

Credit Hours: 3

In-depth studies of legal issues pertinent to hospitality and tourism firms are the focus of this course. Topical areas include contracts, negligence, and employment, labor, and real estate law. Treaties and international law affecting global trade policy as well as international tourism development receive heavy emphasis.

Lecture Contact Hours: 3

Typically Offered: Demand

HSP 720 - Hospitality Change Management and Leadership

Credit Hours: 3

An in-depth investigation of the principles and theories of leading change in hospitality organizations. The processes, skills, and abilities needed to manage change in the industry are stressed. Attention is given to areas hospitality leaders need to address when initiating change such as vision development, team development and motivation, power and influence, performance standards, productivity, and organizational culture. Case studies will be used extensively to address course content.

Lecture Contact Hours: 3

Typically Offered: Demand

HSP 730 - Seminar in Hospitality and Tourism

Credit Hours: 3

An evaluation and analysis of the theory, research, and practice involved in hospitality and tourism fields. The course involves an integrative learning experience where students will have the opportunity to engage in an applied research project.

Prerequisite: HSP 710 and HSP 720.

Lecture Contact Hours: 3

Typically Offered: Demand

HSP 798 - Field Experience in Hospitality Administration

Credit Hours: 3

The field experience is the culminating course for students in the Hospitality Administration Certificate Program. This course provides the students with direct leadership experience in the hospitality industry. Possible field experience sites include hotels, restaurants, institutional foodservice operations, country clubs, senior living facilities, convention and visitors bureaus, tourism-related companies, stadiums, entertainment venues, cruise lines, and many others. An intentional match will be made between the student's career aspirations, the field experience site, and the industry segment. Student must successfully complete at least 300 hours of field experience and well as a seminar paper.

Prerequisite: HSP 710 and HSP 720; and HSP 730 or concurrent enrollment; and application approval.

Typically Offered: Demand

History

HST 609 - Indian History

Credit Hours: 3

History of Indian/White relations, federal Indian policy, and Indian accommodation to European introductions and eventual American dominance from the beginning of contact with Europeans to the present. May be taught concurrently with HST 509. Cannot receive credit for both HST 509 and HST 609.

Lecture Contact Hours: 3

Typically Offered: Fall

HST 611 - The Plains Indians

Credit Hours: 3

History and culture of Plains Indians from the pre-Columbian period to the end of the frontier era near the turn of the last century, including the impact of the European invasion. May be taught concurrently with HST 510. Cannot receive credit for both HST 510 and HST 611.

Lecture Contact Hours: 3

Typically Offered: Spring

HST 614 - 17th-19th Century British Atlantic

Credit Hours: 3

Study of the British Empire in the 17th-19th century Atlantic World. Topics will include the Enlightenment; mercantilism and free-trade economics; migration, including the American Revolution Loyalist diaspora; the rise and fall of privateering, the Sugar Interest, and the Atlantic slave trade; slavery abolition and post-emancipation society in the West Indies; and Canadian

confederation and home rule. May be taught concurrently with HST 514. Cannot receive credit for both HST 514 and HST 614.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 615 - American Environmental History

Credit Hours: 3

Survey of humankind's relationship with nature and the environment in what is now the United States from pre-Columbian times to the present. Will especially focus on the impact of American development on the environment, the impact of the environment on the development of the United States, and the significance of the many different ideas and images concerning nature and the environment throughout American history. May be taught concurrently with HST 515. Cannot receive credit for both HST 515 and HST 615.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 616 - American Religious History

Credit Hours: 3

Impact of religious thought and religious leaders on the history of the United States. May be taught concurrently with HST 516. Cannot receive credit for both HST 516 and HST 616.

Lecture Contact Hours: 3

Typically Offered: Spring

HST 617 - Legal and Constitutional History of the United States

Credit Hours: 3

The origins of American constitutionalism, The Philadelphia Convention, the historical context of the changes in the law, in the Constitution, and in the courts since 1789, and the development of the law profession and legal education. May be taught concurrently with HST 517. Cannot receive credit for both HST 517 and HST 617.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 618 - Colonial America

Credit Hours: 3

Character, development and modification of the English Empire in North America. May be taught concurrently with HST 518. Cannot receive credit for both HST 518 and HST 618.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 619 - The American Revolution

Credit Hours: 3

Origins of the Revolution, War of Independence, and the society, government, and economy of the Revolutionary and Confederation eras. May be taught concurrently with HST 519. Cannot receive credit for both HST 519 and HST 619.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 621 - Early American Republic

Credit Hours: 3

Study of America, 1780s-1840s. Topics will include the development of constitutional government and federalism, mix of republican ideology and capitalism, causes and results of the War of 1812, first and second political party systems, social reform, and economic development. May be taught concurrently with HST 521. Cannot receive credit for both HST 521 and HST 621.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 623 - Nineteenth Century America

Credit Hours: 3

Emphasis upon how the ideas and values that constituted the original meaning of America (namely, the republicanism of the American Revolution) were transformed in response to the Commercial and Industrial Revolutions of nineteenth century America, producing two major crises of the century: the Civil War and Populist Revolt. Included is the transition of the United States from an agrarian society of economically and politically independent farmers to a depersonalized industrial nation of largely dependent salaried employees and wage earners. May be taught concurrently with HST 523. Cannot receive credit for both HST 523 and HST 623.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 624 - Civil War and Reconstruction

Credit Hours: 3

The sectional conflict, the Civil War, and Reconstruction examined from political, military, social, and economic perspectives, with emphasis on differing historical interpretations of the causes of the war, the South's defeat, and the limits of Reconstruction. May be taught concurrently with HST 524. Cannot receive credit for both HST 524 and HST 624.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 625 - Gilded Age/Progressive Era America, 1865-1920

Credit Hours: 3

Political, economic, social and intellectual development of the United States from the end of the Civil War through World War I and its aftermath. May be taught concurrently with HST 525. Cannot receive credit for both HST 525 and HST 625.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 628 - U.S. History Since 1945

Credit Hours: 3

The Cold War, politics from Truman through the Reagan presidency; the social conflict of the 1960s; the civil rights movement; the Great Society; Vietnam; and the Reagan revolution. May be taught concurrently with HST 528. Cannot receive credit for both HST 528 and HST 628.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 629 - Plagues and Pandemics

Credit Hours: 3

This is a history of disease, especially epidemic disease, in western and world history. The first half of the course looks at disease from ancient times to the last half of the 19th century. The second half concentrates on the period from about 1890 to the present. The focus in the first half is on how people understood disease and how this shaped treatments. The second half focuses on the fundamental changes to disease pools brought about by the creation of thick global networks, increasing urbanization, and dramatic population increases. In terms of treatment, the focus will shift toward the development of germ theory, public health, and scientific medicine. May be taught concurrently with HST 529. Cannot receive credit for both HST 529 and HST 629.

Lecture Contact Hours: 3

Typically Offered: Spring

HST 631 - African American Leaders and Movements

Credit Hours: 3

Study of African American leaders and movements in the United States, with emphasis on the period since World War II. May be taught concurrently with HST 531. Cannot receive credit for both HST 531 and HST 631.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 632 - History of Ancient Egypt

Credit Hours: 3

History of ancient Egypt from its unification in approximately 3200 BCE through 500 CE. Foundation of this course is the political history of ancient Egypt, but special attention is paid to particular social history topics, such as the origins of monotheism during the Amarna Period, interactions with the outside world (especially with the ancient Near East, Nubia, and Classical Greece and Rome) and varied topics relating to daily life (e.g. early medicine and science, education, personal piety). A particular emphasis is placed on primary sources in translation and archaeological evidence. May be taught concurrently with AAS 532 and HST 532. Cannot receive credit for AAS 532 and HST 532 and HST 632.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 636 - History of Missouri**Credit Hours:** 3

Economic, social, political and constitutional history of the state; role played by Missouri in national affairs. May be taught concurrently with HST 536. Cannot receive credit for both HST 536 and HST 636.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 637 - History of the American West**Credit Hours:** 3

Westward movement in America as history and myth; influence of the West on American society and character. May be taught concurrently with HST 537. Cannot receive credit for both HST 537 and HST 637.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 638 - History of the American South, 1607-Present**Credit Hours:** 3

Development of the South's social, economic and intellectual distinctiveness, with an emphasis on slavery, the plantation system, sectional conflict, modernization, Populism, disfranchisement, segregation, Dixie Demagogues and the Civil Rights Movement. May be taught concurrently with HST 538. Cannot receive credit for both HST 538 and HST 638.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 641 - The Ancient Near East to 1200 BCE**Credit Hours:** 3

Sumerians, Babylonians, Egyptians and Hittites; special reference to Hebrew scripture. Interrelationships among ancient

civilizations; readings from original sources in English translation. May be taught concurrently with HST 541. Cannot receive credit for both HST 541 and HST 641.

Lecture Contact Hours: 3

Typically Offered: Fall

HST 642 - Ancient Israel

Credit Hours: 3

History of Israel to the end of the Persian period with special reference to the Canaanites, Mycenaeans, Philistines, Phoenicians, Assyrians, Chaldeans, and Persians. May be taught concurrently with HST 542. Cannot receive credit for both HST 542 and HST 642.

Lecture Contact Hours: 3

Typically Offered: Spring

HST 643 - Nationalism, Sectarianism, and Conflict in the Middle East

Credit Hours: 3

This course will focus on the origins and development of various ethnonational and sectarian conflicts in the Middle East during the nineteenth and twentieth centuries. This includes the Armenian question, the Israeli-Palestinian dispute, and the Kurdish issue. May be taught concurrently with HST 543. Cannot receive credit for both HST 543 and HST 643.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 645 - Medieval Europe

Credit Hours: 3

This course explores the history of Europe between the 5th and 15th centuries, from the collapse of the Western Roman Empire to the end of the Hundred Years War. Topics covered include the Germanic migrations; the spread of Christianity; the rise and fall of the Carolingian Empire; monastic life; feudal monarchy in France and England; conflicts between secular and ecclesiastical authority; the crusades; heresy and the papal inquisition; Jewish, Christian, and Muslim interaction; the movement of people, objects, and ideas between Europe and neighboring regions; and the Black Death and other crises of the late Middle Ages. May be taught concurrently with HST 545. Cannot receive credit for both HST 545 and HST 645.

Lecture Contact Hours: 3

Typically Offered: Fall

HST 648 - The Renaissance

Credit Hours: 3

Europe from about 1320 to about 1550, in the transition period from Medieval civilization to Modern Civilization; history of ideas and culture. May be taught concurrently with HST 548. Cannot receive credit for both HST 548 and HST 648.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 649 - The Reformation

Credit Hours: 3

Early modern period of European history, 1500-1648. Religious controversy, religious wars, growth of the secular state. May be taught concurrently with HST 549. Cannot receive credit for both HST 549 and HST 649.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 653 - History of Europe in the 19th Century, 1815-1918

Credit Hours: 3

Forces unleashed by the French Revolution and other movements, including liberalism, reaction, nationalism, industrialization, and imperialism. May be taught concurrently with HST 553. Cannot receive credit for both HST 553 and HST 653.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 655 - Europe in the 20th Century

Credit Hours: 3

History of Europe from the First World War. Topics will include the persistence of war and violence in contemporary European history, the evolution of the state and economy during eras of crisis and growth, and the transformation of European society and culture across the 20th century. May be taught concurrently with HST 555. Cannot receive credit for both HST 555 and HST 655.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 659 - Germany, 1815-Present

Credit Hours: 3

The unification process, the German Empire, Weimar Republic, Third Reich, Germany as a European Great Power. May be taught concurrently with HST 559. Cannot receive credit for both HST 559 and HST 659.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 663 - History of Fascism

Credit Hours: 3

This course deals mainly with interwar fascist movements and regimes in Europe and examines such relevant questions as the intellectual origins of fascism; paramilitary violence after WWI; charismatic leadership; state terrorism; fascist art and propaganda; social policy; imperialism and war and genocide. It also examines the history of Right radical, fascist and post-fascist movement and regimes in Europe, Latin America (Argentina, Chile, Brazil and Peru), United States, South Africa, the Middle East (Egypt, Syria and Iraq) and Africa (Ghana, Nigeria, Congo, Uganda) after 1945. May be taught concurrently with HST 563. Cannot receive credit for both HST 563 and HST 663.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 664 - History of the Holocaust**Credit Hours: 3**

Envisioned as a multi-disciplinary class, this course examines the complex history of the Holocaust during the Second World War. It discusses such important topics as the life of Jewish communities in Germany and Eastern Europe before 1933; Jewish emancipation; the rise of political anti-Semitism; Hitler and the creation of the Third Reich; discrimination against racial outsiders and "asocials"; the life of Jews in Nazi Germany; the "twisted road to Auschwitz"; the historical debates on the origins of the genocide; the social and psychological make-up of the perpetrators; the role of bystanders both in Germany and other parts of Europe; Jewish resistance and finally the memory of the Holocaust in Germany, Israel, United States and Eastern Europe. May be taught concurrently with HST 564. Cannot receive credit for both HST 564 and HST 664.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 666 - Victorian and Edwardian England**Credit Hours: 3**

This course will examine the impact of industrialization; wealth, poverty and the rise of class; reform movements; origins of the welfare state; emergence of the Labour party, and the slow eclipse of aristocratic power and influence. May be taught concurrently with HST 566. Cannot receive credit for both HST 566 and HST 666.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 667 - Race and Gender in the British Empire**Credit Hours: 3**

In the aftermath of Brexit and with new attention directed to the legacies of colonization in and outside the classroom by movements such as Black Lives Matter, the history of the British Empire has become increasingly scrutinized. This course seeks to dispel the myths of imperial nostalgia and white exceptionalism by offering new approaches to doing imperial history, specifically through the lens of race and gender. Course will prioritize otherwise-silenced voices of women, as well as Black and indigenous persons of color. Course will seek to examine the formation of identities between colonizer and the colonized, and how these racialized and gendered identities were constantly challenged over time. May be taught concurrently with HST 567. Cannot receive credit for both HST 567 and HST 667.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 669 - The Material Worlds of Antiquity: Archaeology and Ancient History

Credit Hours: 3

The study of the past is built largely upon written sources -- i.e. histories, decrees, tax receipts, wills, letters, religious literature. In fact, for many "History" begins with writing, regulating earlier human events to the category of "prehistory". Whether "prehistoric" or "historic", however, texts only provide partial insight into the ancient world and its inhabitants. Archaeology has become an invaluable tool for histories of all periods, but especially for ancient history. This course seeks to better understand ancient history -- specifically, the histories of Egypt, the Near East, Greece, and Rome -- from an archaeological perspective and at a graduate level. This course is not a survey, but rather will focus on particular historical moments, people, and places, relying on archaeological evidence to elucidate and/or complicate ancient histories. Texts will still be considered, but will be treated as artifacts alongside other objects, monuments, and sites from antiquity. In addition to learning about the histories of ancient peoples from across the Mediterranean, Middle East, and North Africa, this course will also introduce graduate students to archaeological theories, practices, and technologies, as they relate to the study of the ancient past. May be taught concurrently with HST 569. May not receive credit for both HST 569 and HST 669.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 671 - China in the Twentieth Century

Credit Hours: 3

An intensive study of the transformation of China from a Confucian, Feudal state to a Communist world power. May be taught concurrently with HST 571. Cannot receive credit for both HST 571 and HST 671.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 672 - Gender and Sexuality in Modern East Asia

Credit Hours: 3

This course explores the formation, institutionalization, and ongoing negotiation of gendered discourses and practices in China, Japan, and Korea from the late imperial period until the present. Drawing on a range of sources, including literature, images, and films, students will analyze the ways in which changing conceptions of gender and sexuality have informed the legal system, medicine, political movements, and economic formations in East Asia, among others. May be taught concurrently with HST 572. Cannot receive credit for both HST 572 and HST 672.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 674 - Jordan Archaeology Education Abroad

Credit Hours: 3

This course is a formal archaeological field school--with field, lab, and classroom components--held on-site in Jordan as an Education Abroad opportunity in the summers. The field school provides hands-on training in archaeological excavation and post-season object analysis techniques; students will also participate in several projects related to site presentation, architectural preservation, and community outreach that are running concurrently with the project. The field school rotates between the Tall Hisban excavations and the Northern Jordan Project (NJP), held at each site in alternative summers. Excursions to sites of archaeological, historical, religious, and cultural interest are organized on weekends. The program, depending on the research objectives that year, will run 3-6 weeks. May be taught concurrently with HST 574. Cannot receive credit for both HST 574 and HST 674.

Prerequisite: permission of instructor.

Typically Offered: Summer

HST 682 - Mexico from Colony to Nation**Credit Hours:** 3

Mexican history from the colonial period to the Revolution of 1910. May be taught concurrently with HST 587. Cannot receive credit for both HST 587 and HST 682.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 688 - Twentieth-Century Mexico**Credit Hours:** 3

Mexico from the Revolution of 1910 to the present, emphasizing Mexico's influence upon the Cuban Nicaraguan and other revolutions; its role as a member of the Middle American Community and of Latin America at large. May be taught concurrently with HST 588. Cannot receive credit for both HST 588 and HST 688.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 697 - Topics in History**Credit Hours:** 1-3

The topics studied will change from term to term depending on the interests of professors and students. Variable content course. May be repeated as topics change. May be taught concurrently with HST 597. Cannot receive credit for both HST 597 and HST 697.

Typically Offered: Demand

HST 698 - Internship in Public History**Credit Hours:** 1-3

Supervised and approved work in a public or private agency which manages a museum, archive, or historic sites. One credit hour

is awarded for each 40 hours of service. May be repeated for credit but only three hours may be counted towards the MA History. May be taught concurrently with HST 599. Cannot receive credit for both HST 599 and HST 698.

Prerequisite: permission of department head.

Typically Offered: Demand

HST 701 - Historiography and Historical Method

Credit Hours: 3

Various philosophies of history and theories concerning method, purpose and meaning of history; problems of research.

Lecture Contact Hours: 3

Typically Offered: Fall

HST 702 - Secondary School Curriculum for the Social Studies

Credit Hours: 3

Foundation course in the development and organization of the secondary school curriculum with an emphasis toward issues within social studies curriculum. This course meets the MSED degree requirements for social studies or history majors only.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 710 - Ancient History Research Seminar

Credit Hours: 3

A seminar in ancient history, providing a study in depth of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated once for credit.

Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 720 - American History Readings Seminar

Credit Hours: 3

Readings in chosen periods and topics in American History for the graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 723 - American Civil War Readings Seminar

Credit Hours: 3

This seminar introduces graduate students to recent historical scholarship on the era of the American Civil War. Among the major themes covered are the relationships between soldiers and civilians, slavery and emancipation, politics, and the war's impacts upon human health and the environment. Although these readings focus largely upon the war years of 1861 to 1865, the course also examines the sectional crisis, the contested period of postwar Reconstruction, and subsequent struggles over Civil War memory.

Recommended Prerequisite: HST 701 .

Lecture Contact Hours: 3

Typically Offered: Fall

HST 724 - American Empire Readings Seminar

Credit Hours: 3

This readings course introduces the graduate student to the history of American Empire, examining the ideological, political, economic, and social aspects of American expansion from colonial times to the present. The course also explores how diverse groups participated in and reacted to expansion, including the roles of race, gender, class, and religion.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 725 - Ozarks History Readings Seminar

Credit Hours: 3

Readings in the history of the Ozarks for the graduate student.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 726 - African-American History Readings Seminar

Credit Hours: 3

Readings in chosen periods and topics in African-American history for the graduate student. May be repeated once for credit.

Prerequisite: HST 701 .

Lecture Contact Hours: 3

Typically Offered: Demand

HST 730 - American History Research Seminar

Credit Hours: 3

In-depth study of a chosen topic as well as the historiography of the topic for graduate students.

Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 740 - European History Readings Seminar

Credit Hours: 3

Readings in chosen periods and topics in European history for the graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 750 - European History Research Seminar

Credit Hours: 3

In-depth study of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated for credit with department consent.

Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 760 - Latin American History Readings Seminar

Credit Hours: 3

Readings in chosen periods and topics in Iberian and Latin American history for the graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 765 - African History Readings

Credit Hours: 3

This course offers readings in chosen periods and topics in African History for the graduate student. Topics could range from historical processes and themes, most especially the abolition of the Trans-Atlantic Slave Trade and its impact on power, African Politics, Economic History of Africa; the European Conquest and how Africans negotiated and contested colonial rule; and Struggles of Decolonization and Independence in Africa, Terrorism in Africa, Nation Building in Post-Colonial Africa, Political Instability and Economic Development, etc. On the other hand, the course explores the history of Precolonial, Colonial and Postcolonial Africa as a field of inquiry, the major historiographical debates that have emerged since independence. Lastly, the course problematizes classic works, examines new ones and explores innovative areas of knowledge as well as experiments with a few new methodologies and source materials employed by African historians. May be repeated to a maximum of six hours.

Prerequisite: HST 701 .**Lecture Contact Hours:** 3**Typically Offered:** Demand**HST 770 - Ancient History Readings Seminar****Credit Hours:** 3

Readings in chosen periods and topics in Ancient history for graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.**Lecture Contact Hours:** 3**Typically Offered:** Demand**HST 775 - Middle Eastern History Readings Seminar****Credit Hours:** 3

Readings in chosen periods and topics in Middle Eastern history for the graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.**Lecture Contact Hours:** 3**Typically Offered:** Demand**HST 776 - Asian History Readings Seminar****Credit Hours:** 3

Readings in chosen periods and topics in Asian history for the graduate student. May be repeated once for credit.

Recommended Prerequisite: HST 701.**Lecture Contact Hours:** 3**Typically Offered:** Demand

HST 780 - World History Research Seminar

Credit Hours: 3

In-depth study, in African, East Asian, Latin American, or Middle Eastern history, of a chosen topic as well as the historiography of the topic for the graduate student. May be repeated to a maximum of six hours with departmental consent.

Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Spring

HST 783 - Women's History Primary Source Seminar

Credit Hours: 3

Students will study seminal primary and secondary sources relating to women's history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 784 - The American Revolution Primary Source Seminar

Credit Hours: 3

Students will study seminal primary and secondary sources relating to the American Revolution, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 785 - The Civil War in Missouri Primary Source Seminar

Credit Hours: 3

Students will study seminal primary and secondary sources relating to the Civil War in Missouri, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 786 - American Social History Primary Source Seminar

Credit Hours: 3

Students will study seminal primary and secondary sources relating to American social history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 787 - American Education Primary Source Seminar**Credit Hours:** 3

Students will study seminal primary and secondary sources relating to American education, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing, and teaching of history.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 790 - World History Readings Seminar**Credit Hours:** 3

Readings in chosen periods and topics in world history, comparative history, or a study involving at least two global areas such as diaspora studies. May be repeated to a maximum of nine hours.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 792 - World History Primary Source Seminar**Credit Hours:** 3

Students will study seminal primary and secondary sources related to world history, discussing and analyzing their content, origins, and context in order to understand their application to the research, writing and teaching of history. May be repeated to a maximum of nine hours.

Recommended Prerequisite: HST 701.

Lecture Contact Hours: 3

Typically Offered: Demand

HST 796 - Readings in History

Credit Hours: 1-3

Arranged program of readings for the individual student directed by a professor of the graduate faculty. May be repeated once for credit.

Prerequisite: permission of supervising professor and permission of department head.

Typically Offered: Demand

HST 799 - Thesis**Credit Hours:** 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission of Director of History Graduate Program.

Typically Offered: Demand

Information Technology and Cybersecurity**ITC 600 - Information Systems in Business Organizations****Credit Hours:** 3

Comprehensive study of the fundamentals of business information systems. Designed for graduate students who have not had undergraduate information systems courses. Will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 628 - Database Application Development with Oracle**Credit Hours:** 3

Application of database principles toward the development of a business information system. Emphasis will be on the design, construction, testing, and installation of a comprehensive database application using Oracle DBMS, SQL, PL/SQL, HTML, or other data access tools. A significant course project is required, and may be an individual or group project. May be taught concurrently with ITC 528. Cannot receive credit for both ITC 528 and ITC 628.

Prerequisite: permission of a director of a College of Business graduate program

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 645 - Data Infrastructure for Data Analytics**Credit Hours:** 3

This course focuses on emerging issues surrounding the modern data infrastructures that enable data analytics. Students will explore the challenges of working with Big Data (large, diverse datasets that often include varied data types and streaming data)

in addition to traditional data infrastructures such as data warehouses. They will become familiar with capturing data from contemporary sources such as web and social media, mobile and sensors, and a variety of large, publically available datasets. Various data management techniques will be explored, including distributed file systems and associated query methods. The goal of this course is to prepare students to assess and recommend large-scale information storage and retrieval components which enable data analytics. May be taught concurrently with ITC 545. Cannot receive credit for both ITC 545 and ITC 645. The graduate level (645) students will have a significant research project required above and beyond the undergraduate level (545) students.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 655 - Data Visualization

Credit Hours: 3

This course introduces data visualization concepts, principles, techniques and tools. Data visualization is an effective approach to discover insights from data. It is a necessary component in the skills portfolio of a data analytics professional. Students will learn relevant principles from fields such as psychology and human computer interaction. This course is designed as hands-on, experience oriented. The principles, concepts, ideas and insights discovering are taught by using data visualization software. The designed learning outcome is that students are able to (1) interpret and explain commonly used data visualization presentations, (2) suggest visualization methods for specific decision making purpose, (3) understand special features of visualization formats such as possible biases that readers may be subject to, and (4) use a software package to design and implement a visualization project. May be taught concurrently with ITC 555. Cannot receive credit for both ITC 555 and ITC 655. The graduate level (655) students will have a significant research project required above and beyond the undergraduate level (555) students.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 663 - Telecommunications and Network Security

Credit Hours: 3

This hands-on course provides an introduction to tools and techniques used by security professionals to secure corporate networks. Topics include virtual private networks (VPNs), firewalls, and intrusion detection and prevention systems (IDS/IPS). Defense in depth will be taught through the installation and configuration of firewalls, VPNs, and IDS/IPS. Students will be able to recognize and prevent malicious attacks on corporate networks. A significant research project is required.

Prerequisite: ITC 760 and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 664 - Ethical Hacking and Incident Response

Credit Hours: 3

This hands-on course provides an introduction to tools and techniques used by hackers to penetrate corporate networks. Topics include vulnerabilities of operating systems, incident-handling methods, and an overview of the process and methodologies used in penetration testing including ethical and legal implications. A significant research project is required.

Prerequisite: ITC 760 or concurrent enrollment; and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 680 - Fundamentals of Blockchain Technology

Credit Hours: 3

This class explores the fundamental components and architecture of blockchain technology. Students will obtain a basic understanding of the blockchain technology, its history and current developments, and business/technical challenges and emerging solutions. Students will have a hands-on building experience of blockchain applications, learn how blockchain technology works with various programming languages, and explore current protocols and platforms of blockchain. Topics covered include components of Blockchain applications (consensus protocols, distributed ledgers, digital assets, smart contracts, cryptography, etc.); characteristics of different types of blockchains (permissioned vs. permissionless; public vs. private; etc.); and use cases (Blockchain vs. traditional distributed databases, etc.). May be taught concurrently with ITC 580. Cannot receive credit for both ITC 580 and ITC 680.

Prerequisite: QBA 775.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 681 - Data Analytics for Business Decision Making

Credit Hours: 3

This course provides a foundational overview of Data Analytics (DA), which enables enterprise clarity by defining data-driven insights and recommending solutions that deliver value to stakeholders. Topics covered in the course include foundational principles of data-driven strategy and governance, analytics/business alignment, IT data management, and the DA process model. May be taught concurrently with ITC 581. Cannot receive credit for both ITC 581 and ITC 681.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 682 - Lean IT

Credit Hours: 3

Lean principles to manage IT with an emphasis on the reduction of waste and providing value to customers. Additional principles from Lean Six Sigma, continual improvement, IT Service Management, and other relevant areas will be covered. Course requires students to complete a project analyzing one or more of the existing IT processes of an organization.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 683 - Cloud Computing

Credit Hours: 3

A study of the concepts and applications of cloud computing. Cloud computing is a model for enabling ubiquitous, convenient, on-demand network access to a shared pool of configurable computing resources (e.g. networks, servers, storage, applications, and services) that can be rapidly provisioned and released with minimal management effort or service provider interaction. May be taught concurrently with ITC 583. Cannot receive credit for both ITC 583 and ITC 683.

Lecture Contact Hours: 3

Typically Offered: Spring

ITC 696 - Problems in Business: Information Technology and Cybersecurity

Credit Hours: 1-3

Technical or professional problems growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a maximum of three hours.

Prerequisite: permission of a director of a College of Business graduate program.

Typically Offered: Demand

ITC 720 - Project Management in Information Systems

Credit Hours: 3

A study of the concepts, practices, processes, tools, techniques and resources used by information system (IS) project managers. The entire project life cycle will be covered from inception to close-out. The course will closely follow the framework of the Project Management Body of Knowledge (PMBok). The course will focus on how to manage the scope, schedule, budget and risk of projects, with emphasis on information systems and information technology projects.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 732 - Strategic IT Planning

Credit Hours: 3

Introduction to fundamental issues of information system (IS) planning. Current theory and specific IS planning practices are studied. Emphasis on strategic implications of information technology, IS planning vis-a-vis strategic planning, development and maintenance of IS plans, analysis of organization information requirements, and prioritizing IS projects. Implications for business and technology trends and application of planning concepts to IS planning projects are examined.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 735 - Neural Networks for Machine Learning

Credit Hours: 3

Artificial neural networks and how they are being used for machine learning, as applied to data analytics in the business environment. Students will be required to collect original data for neural network analysis. Different learning algorithms will be

explored, including the Genetic Algorithm. This course will lead to a graduate level paper with possibilities for publication.

Lecture Contact Hours: 3

Typically Offered: Spring

ITC 736 - Data Communications and Networking

Credit Hours: 3

Computer network planning, including physical layout, resource requirements, and budgeting. Administration of computer networks, including managing user accounts; selecting and loading applications software; managing upgrades and enhancements; monitoring and optimizing system performance; ensuring physical and logical system security.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 738 - Information Technology Project Management

Credit Hours: 3

Objectives and techniques of planning, organizing, and managing complex information systems development projects. The course will include a study of resources and tools available for scheduling, tracking, and measuring system development productivity.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 740 - IT System Development

Credit Hours: 3

Study of various systems development methodologies used to analyze, design, and implement information systems; selection criteria for a specific methodology, and how to introduce a new methodology within an existing environment. Specific tools and techniques for systems development and for business process reengineering will be explored and applied.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 744 - Information Systems Management

Credit Hours: 3

Overview of managerial applications of information technology (IT) to increase effectiveness. Use of IT to support decision making, cooperative work, organizational competitive advantage, and inter-organizational communication. Various planning approaches will illustrate the use of IT in organizations. Case method will be used.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 746 - Data Management

Credit Hours: 3

Study of data modeling using tools such as Entity-Relationship and Semantic Object Models. Examination of the Database Administrator's responsibilities including monitoring and tuning of the database, establishment of database reliability, and security. A case project will include the development of a data model and a database administration plan for a client/server database system.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 747 - IT Legal Issues

Credit Hours: 3

Focus on the legal and ethical environment relevant to advances in technology. Issues include intellectual property, jurisdiction, defamation, invasion of privacy, electronic contracts, computer crime, censorship, unsolicited email, antitrust issues, and encryption. Recent developments, court decisions, federal and state statutes, treaties and international agreements, administrative rulings, and legal literature regarding internet law, will be explored and explained.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 748 - Principles of Information Security

Credit Hours: 3

This course provides the foundation for understanding the key issues associated with protecting information assets, determining the levels of protection and response to security incidents, and designing a consistent, reasonable information security system, with appropriate intrusion detection and reporting features. The students will learn a balance introduction to both security management and technical components of information security; they will be exposed to the spectrum of security activities, methods, methodologies, and procedures. This spectrum includes inspection and protection of information assets, detection of and reaction to threats to information assets, and examination of pre- and post-incident procedures, technical and managerial responses and an overview of the information security planning functions.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 752 - IT Leadership

Credit Hours: 3

This course is designed to provide an understanding and appreciation of organizational behavior issues facing senior and mid-level IT managers. Topics to be examined include: organizational behavior from an individual, group and structural perspective, organizational culture, leadership, perception and decision-making values and attitudes, and emotional intelligence. The material should be of interest and benefit to IT professionals, irrespective of technical specialty, who are currently in or aspire to IT management.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 754 - Organizational Transformation**Credit Hours:** 3

Study of interrelated economic, social, political, and technological forces requiring organizations to transform their systems and processes to survive and succeed. Students will examine a variety of typical transformations from the perspective of a work unit member and a manager of the change process.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 755 - Data Analysis and Visualization**Credit Hours:** 3

This course will introduce students to the principles and techniques of data analysis and visualization. The course will help students develop the skills and knowledge to effectively analyze, visualize and communicate data insights. It will emphasize hands-on experience and highlight practical challenges involved in working with real-world data. After completing the course, the students will be able to (1) understand the application of data visualization for effective communication (2) understand key design principles and techniques for visualizing data (3) collect and process data for visualization (4) apply visualization methods for specific decision-making purpose.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 756 - Special Topics in Information Technology**Credit Hours:** 3

Variable content with topics that can change from semester to semester. Topics are identified by title in the schedule of classes. Practical applications will be stressed. May be repeated to a maximum of six hours.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 758 - Technological Innovation

Credit Hours: 3

This course explores the challenges, impacts, and organizational best practices tied to technological innovation. Topics covered in this course include technological innovation types and their characteristics, the process of managing technological innovation, best practices and challenges of implementing radical and/or disruptive technological innovations, and current developments across the technological innovation landscape.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 760 - Foundations of Cybersecurity

Credit Hours: 3

This course is an introduction to the basic issues in computer security. While technical in nature, this course is introductory in its approach in that the student is not required to have an extensive background in programming or technical support. A significant research project is required.

Prerequisite: permission of Cybersecurity program director.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 761 - Management Information Systems

Credit Hours: 3

This course includes and goes beyond the typical management information system course material. It includes a macro application to the concepts, designs, and implementations of business information systems. Time is spent as well in exploring the importance of balancing technical innovation, business stewardship, and socially responsible and ethical uses of technology.

Prerequisite: admission to the MBA program or permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Spring

ITC 762 - Legal Issues in Cybersecurity

Credit Hours: 3

This course provides an overview of the laws and legal processes involved in e-commerce, privacy, and intellectual property rights and cyberspace law. Risk analysis, incident response, and network forensic investigations. Objectives include recognizing the legal aspects of the security triad: confidentiality, integrity, and availability, examining the concepts of privacy and its legal protections, and being able to explain the importance of forensics examination in legal proceedings.

Prerequisite: ITC 760 or concurrent enrollment; and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 765 - Computer Forensics

Credit Hours: 3

This hands-on course addresses the fundamentals of computer system forensics. It will provide an overview of computer crimes, forensic methods, the role of computer forensics specialists, computer forensic evidence, and the application of forensic analysis skills. Emerging technology and future directions will be considered along with email, mobile, Window, Mac, and Linux forensics. A significant research project is required. May be taught concurrently with ITC 565. Cannot receive credit for both ITC 565 and ITC 765.

Prerequisite: ITC 760 and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 766 - Web Application Security

Credit Hours: 3

This hands-on course provides an introduction to tools and techniques used to hack web applications. Security strategies will be presented that can help to mitigate risk associated with web applications and social networking. Course objectives include analyzing the impact of the internet and web applications on the business world, the evolution of social media and social networking, analyzing common website attacks, weaknesses, and security best practices. A significant research project is required. May be taught concurrently with ITC 566. Cannot receive credit for both ITC 566 and ITC 766.

Prerequisite: ITC 760 or concurrent enrollment; and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 767 - Management of Information Security

Credit Hours: 3

This course surveys the management of the information security function within organizations. Topics include establishing and implementing information security policies; assessing and mitigating risk associated with IT infrastructure; and planning/auditing compliance with information security policies, laws and regulations.

Prerequisite: ITC 760 or concurrent enrollment; and admission to the Cybersecurity program or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 770 - Seminar in Cybersecurity

Credit Hours: 3

Critical evaluation and interpretation of research and literature in Cybersecurity.

Prerequisite: 15 hours of graduate Cybersecurity courses and permission from the Cybersecurity Program Director.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 774 - Predictive Artificial Intelligence

Credit Hours: 3

Tools and methodologies for predictive data analytics in the business environment, including artificial intelligence categories, machine learning, multi-layered neural networks, and genetic algorithms. Data preparation, data runs (using a mashup of a multi-layered neural networks and the genetic algorithm), and data analysis will be conducted throughout the semester cumulating into a final project paper.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 775 - Enterprise Data Analytics

Credit Hours: 3

This course introduces students to the creation of business value through data analytics. In contrast to the purely technical treatment of data analytics found in many analytics methods courses, this course will explore the entire data analytic process including: (1) identifying opportunities for deriving business value through analytics, (2) translating these opportunities into analytic strategy; (3) selecting and performing appropriate analytic methods; and (4) facilitating the realization of business value by effectively communicating the analytic results.

Prerequisite: admission to the MS in Information Technology program.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 790 - Seminar in Management Information Systems

Credit Hours: 3

Critical evaluation and interpretation of research and literature in information systems.

Prerequisite: 15 hours of graduate business administration courses and permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Demand

ITC 794 - Internship: Information Technology and Cybersecurity

Credit Hours: 3

In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or

other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

Prerequisite: permission of the director of the appropriate graduate program and department head.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

ITC 795 - Independent Study-Information Technology

Credit Hours: 1-3

In consultation with an advisor, students select a specific information technology topic for intensive study. Course deliverables appropriate for the selected topic and study will be determined by the advisor. Variable content course.

Prerequisite: admission to the MS in Information Technology program and permission of program director.

Typically Offered: Demand

ITC 796 - Independent Study-Information Technology and Cybersecurity

Credit Hours: 1-3

In consultation with the advisor, student selects, for intensive study, a specific area of concern related to the student's program, with emphasis on research.

Prerequisite: permission of advisor.

Typically Offered: Fall, Spring

ITC 797 - Special Topics

Credit Hours: 1-3

Study of topics in Information Technology and Cybersecurity. May be repeated to a maximum of six hours when topic varies.

Prerequisite: permission.

Typically Offered: Demand

ITC 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with the preparation of a thesis.

Prerequisite: permission of instructor.

Typically Offered: Demand

Journalism

JRN 607 - Media Law

Credit Hours: 3

History and application of the speech and press clause of the First Amendment; libel law, privacy law, copyright and other legal matters relating to mass media; relation of media law to journalistic ethics. May be taught concurrently with JRN 407. Cannot receive credit for both JRN 407 and JRN 607.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

JRN 690 - Issues in Journalism**Credit Hours:** 3

A variable content course addressing topics of current interest as well as timeless issues. May be repeated to a maximum of six hours with permission if topic is different. May be taught concurrently with JRN 590. Cannot receive credit for both JRN 590 and JRN 690.

Lecture Contact Hours: 3

Typically Offered: Demand

JRN 695 - Journalism Internship**Credit Hours:** 1-6

Work experience with news organizations. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated to a maximum of six hours. May be taught concurrently with JRN 595. Cannot receive credit for both JRN 595 and JRN 695.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

Kinesiology

KIN 600 - Seminar in Kinesiology**Credit Hours:** 1-3

Directed reading and special investigation of selected subjects in physical education or exercise science; research projects under faculty supervision. Variable content course. May be repeated to a maximum of nine hours. May be taught concurrently with KIN 500. Cannot receive credit for both KIN 500 and KIN 600.

Typically Offered: Demand

KIN 625 - Diversity and Culture in Sport**Credit Hours:** 3

In this course, the context of relationships, issues, and trends in a culturally, ethnically, and linguistically diverse society are

explored. The focus is on theories of identity development in multiple domains, multicultural competencies, cultural humility, and doing the inner work necessary to engage in meaningful work with clients of diverse identities and experiences. Additional topics covered in the course include the nature of biases, prejudices, oppression, discrimination, acculturation, privilege, and their effects on the physical and mental health of individuals and communities. May be taught concurrently with KIN 425. Cannot receive credit for both KIN 425 and KIN 625.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer, Demand

KIN 645 - Perceptual and Motor Development

Credit Hours: 3

Perceptual and motor development from prenatal life to adolescence; relationships of growth factors that influence motor abilities; difficulties that may arise when the normal course of development is interrupted. Includes a laboratory and a practicum experience. May be taught concurrently with KIN 545. Cannot receive credit for both KIN 545 and KIN 645.

Recommended Prerequisite: PSY 360.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

KIN 650 - Organization and Administration for Kinesiology Professionals

Credit Hours: 3

This course will cover the fundamentals of program administration, legal considerations of health and exercise business management, and basic leadership responsibilities. This course will provide students the knowledge and skills associated with the resources required to implement health and physical activity programs and run exercise-related businesses. May be taught concurrently with KIN 550. Cannot receive credit for both KIN 550 and KIN 650.

Lecture Contact Hours: 3

Typically Offered: Spring

KIN 667 - Physical Activities for the Aging Adult

Credit Hours: 3

The effects of aging and common degenerative diseases of the aged on physical performance and activities of daily living. Included are units on assessment of physical working capacity, flexibility, body composition and strength maintenance. Also, units on program design for performance activities commensurate with functioning capacity. May be taught concurrently with KIN 567. Cannot receive credit for both KIN 567 and KIN 667.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

KIN 668 - Adapted Physical Education

Credit Hours: 4

This course includes symptomology, sources of referral, typical behavior aberrations, and principles and problems related to the physical education of the exceptional child. Additional focus is placed on the modification of motor activities, general fitness activities, and therapeutic exercises for exceptional students. Three hours of directed practicum per week, totaling 30 hours, is required. May be taught concurrently with KIN 468. Cannot receive credit for both KIN 468 and KIN 668.

Prerequisite: Acceptance into the MS in Health Promotion and Wellness Management program, including accelerated option.
Lecture Contact Hours: 2 Lab Contact Hours: 4

Typically Offered: Fall, Spring, Summer

KIN 669 - Health Appraisal and Exercise Testing Techniques**Credit Hours: 4**

Introduction to appropriate health appraisal and exercise tests for the purpose of exercise programming and prescription. May be taught concurrently with KIN 569. Cannot receive credit for both KIN 569 and KIN 669.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Fall, Spring

KIN 675 - Measurement and Evaluation Applied to Physical Education**Credit Hours: 3**

Use of authentic and traditional assessment techniques in assessing student performance and informing curricular change. Includes basic statistics, use of statistical software packages, evaluation of test validity and bias, and written test construction. May be taught concurrently with KIN 575. Cannot receive credit for both KIN 575 and KIN 675.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

KIN 699 - Special Problems Kinesiology**Credit Hours: 1-5**

Investigation of a problem within physical education or exercise science as assigned by members of the departmental faculty. May be repeated to a maximum of five hours. May be taught concurrently with KIN 499. Cannot receive credit for both KIN 499 and KIN 699.

Prerequisite: permission of department head.

Typically Offered: Fall, Spring

KIN 700 - Research Methods in Kinesiology**Credit Hours: 1**

Course will be taken concurrently with RCH 720. This course services as an introduction to how to ethically do research commonly used in the field of Kinesiology. Students will learn how to critically consume research in Kinesiology by

becoming familiar with the fundamental concepts, methods, and applications of research and evaluation.

Lecture Contact Hours: 1

Typically Offered: Fall

KIN 705 - Applied Statistics in Kinesiology

Credit Hours: 1

Course will be taken concurrently with RCH 700. This course will teach students to critically evaluate measurement techniques and data obtained in the field of Kinesiology. Students will learn methods of acquisition, analysis and interpretation of data most often encountered in Kinesiology.

Lecture Contact Hours: 1

Typically Offered: Fall

KIN 733 - Current Problems in Sports Administration

Credit Hours: 3

Identification, analysis, and evaluation of current problems, research and trends in sports administration.

Lecture Contact Hours: 3

Typically Offered: Fall

KIN 735 - Administration of School Physical Education and Athletic Programs

Credit Hours: 3

Financial and legal aspects, personnel management, program development, public relations, and evaluation as they apply to physical education and athletics.

Lecture Contact Hours: 3

Typically Offered: Demand

KIN 737 - Curriculum Designs in Physical Education

Credit Hours: 3

A comprehensive inquiry of the principles underlying the curriculum of physical education in grades K-12. An in-depth analysis will be given to the problems in development and evaluation of physical education curriculum.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

KIN 739 - Principles of Sports Management

Credit Hours: 3

Introduction to theories and principles of sports management as applied to all segments of the sports industry from high school, collegiate, professional and international sports, to health, fitness and recreational settings.

Lecture Contact Hours: 3

Typically Offered: Fall

KIN 755 - Fitness as Preventive Medicine**Credit Hours: 3**

Development and implementation of scientifically-based fitness programs as vehicles of preventative medicine.

Recommended Prerequisite: KIN 362 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

KIN 759 - Contemporary Health Problems**Credit Hours: 3**

In-depth consideration of relevant pertinent health issues, trends, controversy, and current research in Health Education.

Lecture Contact Hours: 3

Typically Offered: Demand

KIN 760 - Applied Biomechanics of Human Movement**Credit Hours: 3**

Biomechanical principles applied to the analysis of human motion and performance. Techniques of cinematography, computerized motion analysis and other methods of analysis will be used.

Recommended Prerequisite: KIN 360 or equivalent.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

KIN 762 - Applied Exercise Physiology**Credit Hours: 3**

A study of the mechanisms underlying the body's physiological responses and adaptations to exercise and training. Application is made to health-related concerns, environmental stress, exercise practices, and the aging process.

Recommended Prerequisite: KIN 362 or equivalent.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs

Credit Hours: 3

The legal aspects in sports, physical education, recreation and wellness programs as related to personnel, facilities, participants, spectators and contracts. Includes a review of legal concepts, necessary for in-depth study of the law, as it relates to sports, or other programmed activities.

Lecture Contact Hours: 3

Typically Offered: Fall

KIN 781 - Contemporary Issues in Physical Education

Credit Hours: 3

Exploration of basic issues and trends in physical education using a philosophical approach to contemporary American education. Individual problem solving will assist the student in identifying, analyzing and evaluating recent developments and basic issues in physical education and sport.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

KIN 785 - Psychology of Sport and Physical Activity

Credit Hours: 3

This course focuses on applying basic theories of human behavior to the practice of sport psychology in professional settings. Emphasis will be placed on developing an understanding of how sport and physical activity settings influence human behavior and how this knowledge may be used in applied settings.

Lecture Contact Hours: 3

Typically Offered: Spring

KIN 791 - Graduate Internship

Credit Hours: 3

Supervised field experience in a related field. Directly involves student utilization of knowledge and skills to demonstrate proficiency in a professional setting. Student must complete a minimum of 210 internship hours corresponding assignments.

Prerequisite: HLH 645 and HLH 700 and KIN 705 and KIN 785 or approval from Graduate Internship Coordinator.

Typically Offered: Fall, Spring, Summer

KIN 795 - Research Project

Credit Hours: 3

Original research supervised by the departmental staff. Designed to enable students through firsthand experience to understand the various parts of research papers, methods of gathering data, appropriate statistical tests, interpretation of findings and implications for further study.

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator.

Lecture Contact Hours: 3

Typically Offered: Demand

KIN 797 - Graduate Seminar

Credit Hours: 1-3

Selected topics in health, physical education, and recreation. Topics may vary from semester to semester. May be repeated when topic varies but no more than six hours may be counted toward a degree.

Typically Offered: Demand

KIN 798 - Field Experience in Sports Management

Credit Hours: 3-6

The Field Experience is the culminating experience for all students in the certificate program. The field experience provides students the opportunity to become directly involved in the application of organizational and sport management skills in sport related venues. Possible sites include: professional or club sports teams, university athletic departments, sports sales, sports agencies, professional and university sports facilities. Selection is dependent on the students' background and career expectations. All required courses must be completed in order to be eligible. The field experience can be completed during the fall, spring, or summer and requires at least 400 hours. All field experiences must be approved by the internship coordinator.

Prerequisite: completion of the application process for the field experience and 12 credits in the certificate program.

Typically Offered: Demand

KIN 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with the preparation of a thesis. May be repeated but no more than six hours may be counted toward a degree.

Prerequisite: HLH 700 or equivalent; a statistics course; and permission of graduate coordinator.

Typically Offered: Demand

Law

LAW 600 - Legal Environment for Business Managers

Credit Hours: 3

Contemporary legal and ethical issues encountered by business managers will be discussed, including issues related to torts, vicarious liability, products liability issues; formation and enforcement of contracts and sale of goods; regulatory environment affecting employment practices/discrimination, product advertising and environmental responsibility; economic development issues associated with environmental sustainability, property rights, constitutional law and city planning. Agency liabilities and fiduciary responsibilities of agents and managers in business organizations will be examined. An overview of the court system and legal dispute resolution mechanisms will be integrated. This course is primarily intended for MBA students who do not have equivalent undergraduate business law coursework, and this course will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business Graduate Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LAW 631 - Labor Law and Employment Discrimination**Credit Hours: 3**

Legal, regulatory, and ethical issues related to employer-employee relationship, including employment-at-will doctrine, discrimination and union contracts. May be taught concurrently with LAW 531. Cannot receive credit for both LAW 531 and LAW 631.

Prerequisite: LAW 231 or LAW 600.

Lecture Contact Hours: 3

Typically Offered: Fall

LAW 632 - Legal Environment of Business Organizations for Professionals**Credit Hours: 3**

Agency and employment responsibilities and liabilities facing new and traditional forms of business organizations are compared, along with selected tax and security regulation issues. Personal and real property concepts are examined, along with environmental exposure issues. Selected contract and UCC concepts are reviewed. Issue recognition, problem analysis approach and testing mechanisms are especially appropriate for individuals taking the CPA or other professional exams. May be taught concurrently with LAW 532. Cannot receive credit for both LAW 532 and LAW 632.

Prerequisite: LAW 231 or LAW 600.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LAW 637 - Environmental Regulation**Credit Hours: 3**

Environmental laws and government regulations of air, water and land utilization, energy resources, solid and toxic waste disposal, torts, labeling of toxic substances, recycling; ethical, public policy and international implications such regulations and court interpretations pose for business practices, natural resource utilization, health quality, biodiversity, and endangered species. May be taught concurrently with LAW 537. Cannot receive credit for both LAW 537 and LAW 637.

Lecture Contact Hours: 3

Typically Offered: Spring

LAW 639 - Legal Regulation of International Commerce

Credit Hours: 3

Legal and ethical issues associated with doing business in a global economy. Difference in approach to contracting and merchandising; product standards, protection and liability; trade barriers and regulation of business practices. May be taught concurrently with LAW 539. Cannot receive credit for both LAW 539 and LAW 639.

Prerequisite: LAW 231 or LAW 600.

Lecture Contact Hours: 3

Typically Offered: Demand

LAW 650 - Negotiation, Mediation, and Arbitration in Business

Credit Hours: 3

A practical, skills-based study of negotiation, mediation, and arbitration from the business manager's perspective. This hands-on course is designed to develop the skills necessary to enable the business manager to effectively participate in negotiation, mediation, and arbitration as alternatives to litigation for resolving business disputes. Identical with BUS 650. May be taught concurrently with LAW 550. Cannot receive credit for more than one of BUS 550, BUS 650, LAW 550, or LAW 650.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

LAW 730 - Seminar: Contemporary Legal Issues

Credit Hours: 3

In-depth study of selected contemporary legal issues and their impact on the environment of business. Exploration of legal resources relevant to the topics.

Prerequisite: LAW 231 or LAW 600.

Lecture Contact Hours: 3

Typically Offered: Demand

LAW 733 - Legal Regulation of Competition and Monopoly

Credit Hours: 3

Evolution of legal theory regarding governmental regulation of business. The judicial application of laws relating to anti-trust, price discrimination, entry regulation, rate making.

Prerequisite: LAW 231 and LAW 335; or LAW 600.

Lecture Contact Hours: 3

Typically Offered: Demand

Library Science

LIS 700 - Foundations of Library and Information Science

Credit Hours: 3

This course is an introduction to information studies, library science, and information technologies. It will address the various issues and technologies reflecting the changing nature of librarianship. In addition, the course provides an overview of planning, implementing, and evaluating informational programs for children and adults.

Lecture Contact Hours: 3

Typically Offered: Fall

LIS 702 - Organization of Information

Credit Hours: 3

Introduction to the theory and practice of information organization and retrieval in information environments. Familiarity with principles, standards, tools and current systems relating to organization of information and retrieval. Basic principles of cataloging and organizing library materials in the school library media center will be emphasized.

Lecture Contact Hours: 3

Typically Offered: Spring

LIS 704 - Administration and Leadership of Library Programs

Credit Hours: 3

This course focuses on the management of information centers in educational agencies. Emphasizes school library administration: program development, implementation, evaluation; planning cycle; budget process; services for diverse school constituencies. Effects of national, state, district guidelines, standards and policies on library media programs.

Lecture Contact Hours: 3

Typically Offered: Spring

LIS 706 - Collection Development for Libraries Serving Children and Youth

Credit Hours: 3

Principles of collection development and maintenance of both print and electronic resource collections for children and youth-centered libraries.

Lecture Contact Hours: 3

Typically Offered: Fall

Languages, Cultures, and Religions

LCR 611 - Graduate Student Success and Intercultural Skills

Credit Hours: 1-3

In this course, students explore new ways to comprehend and adapt to different cultural situations and perspectives, focusing on U.S. educational practices, cross-cultural communication issues, and traditions and conventions in academia. Students reflect about their beliefs, expectations, and work ethics to gain insights for personal growth. Considering the demands of graduate school, they work on perfecting their organizational skills, defining a path for success, and reviewing resources available on and outside campus to support their goals. Students are encouraged to share the good, the bad, and the ugly of their experiences, develop positive relationships, and engage in practices that boost their sense of belonging and help them plan for success. This course is taught in English.

Typically Offered: Fall, Spring

LCR 650 - Advanced Study Abroad

Credit Hours: 3-6

Study in an area of the world where the target language is spoken. This may be taken through the department's existing program or at any accredited institution. May be taught concurrently with LCR 550. Cannot receive credit for both LCR 550 and LCR 650.

Typically Offered: Demand

LCR 688 - Sociolinguistics for Language Teaching

Credit Hours: 3

This course explores various sociolinguistic topics, with an emphasis on those relevant for language teaching, such as language attitudes; standard languages; literacy; language variation; multilingualism; language planning and policy; and language maintenance and loss. Cannot receive credit for LCR 688 and ENG 688 or ENG 592.

Lecture Contact Hours: 3

Typically Offered: Spring Even

LCR 691 - Principles of Linguistics

Credit Hours: 3

This advanced survey of linguistics covers areas such as phonology, morphology, syntax, semantics, discourse, pragmatics, language change, and language variation. Cannot receive credit for both LCR 691 and ENG 691 or ENG 591.

Lecture Contact Hours: 3

Typically Offered: Spring

LCR 695 - Principles of Second Language Acquisition

Credit Hours: 3

This course blends a historical overview of language acquisition theories with a focus on recent developments and their impact on second-language instructional methodologies. Cannot receive credit for both LCR 695 and ENG 695 or ENG 595.

Lecture Contact Hours: 3

Typically Offered: Spring

LCR 697 - Topics for Teachers of Foreign Languages

Credit Hours: 1-6

Topics of discipline-specific interest to foreign language teachers, e.g., specialized technological resources or contemporary cultural materials. Variable content course. Sections may be specific to a particular language or concern general pedagogical issues. May be repeated to a maximum of six hours. May be taught concurrently with LCR 597. Cannot receive credit for both LCR 597 and LCR 697.

Typically Offered: Demand

LCR 700 - Advanced Language Teaching Methods and Technology

Credit Hours: 3

This course will acquaint language teachers with current second language research and teaching practice, with emphasis on the uses of technology.

Lecture Contact Hours: 3

Typically Offered: Demand

LCR 701 - Applied Foreign Language Practicum

Credit Hours: 1-6

An independent studies option designed to allow students to work closely with a graduate faculty mentor to develop and implement a project that integrates principles and/or practices pertinent to second language acquisition or applied linguistics. Variable content course. May be repeated, as content changes, to a maximum of six hours.

Prerequisite: permission of instructor.

Typically Offered: Demand

LCR 706 - Materials and Assessments in Foreign Language Teaching

Credit Hours: 3

This course reviews theoretical perspectives in foreign language teaching and learning, addressing their practical applications for the development of classroom materials and assessments. Students design teaching activities to promote the development of language knowledge and skills that focus on speaking, listening, reading, pronunciation, grammar, vocabulary, pragmatics and cultural competence.

Prerequisite: Prerequisite LCR 700.

Lecture Contact Hours: 3

Typically Offered: Demand

LCR 710 - Research Methods in Second Language Acquisition

Credit Hours: 3

This course focuses on methods of conducting research in the area of second-language acquisition. Students will learn how to read, interpret, synthesize, and apply SLA research and how to design and conduct studies and disseminate results.

Lecture Contact Hours: 3

Typically Offered: Demand

LCR 724 - Seminar in Linguistics for Foreign Languages

Credit Hours: 1-6

Focused exploration of topics in linguistics, phonetics and phonology, semantics, grammar and syntax, language history, language variation and change, and language acquisition as they pertain to French and/or Spanish. May be repeated, as content changes, to a maximum of six hours.

Typically Offered: Demand

LCR 730 - Summer Invitational Institute

Credit Hours: 3-6

An intensive course in the writing process and the writing curriculum, designed for experienced K-16 teachers across the disciplines using the National Writing Project model. Readings of current theory and research will be related to participants' experiences as writers and as teachers. Cannot receive credit for both MCL 730 and ENG 730.

Prerequisite: permission of Program Coordinator or Department Head.

Typically Offered: Spring

LCR 735 - Supervised Proficiency Development (Independent Study)

Credit Hours: 3

After an assessment of their language proficiency, students receive personalized guidance and complete assessments designed to help them to strengthen their interpretive, interpersonal, and presentational skills in the target language. This course is open to students at the Intermediate Level on the ACTFL Proficiency Scale. Graded Pass/Not Pass only.

Lecture Contact Hours: 3

Typically Offered: Demand

LCR 736 - Advanced Proficiency in World Languages

Credit Hours: 3-12

This course designation is used to grant credit for prior language learning on the basis of established proficiency assessments. Students may receive up to 12 credit hours depending on their test scores in any world languages other than Spanish and French.

Typically Offered: Demand

LCR 798 - Degree Papers

Credit Hours: 3

Independent research and writing toward completion of degree papers. Consultation with a designated MCL/ENG graduate faculty member and topic approval from the Program Coordinator or the Department Head are required. Not open to students writing theses to satisfy the master's research requirement. May not be repeated. Graded Pass/Not Pass only.

Prerequisite: permission of Department Head or Program Coordinator.

Lecture Contact Hours: 3

Typically Offered: Demand

LCR 799 - Thesis

Credit Hours: 1-6

In consultation with LCR and Education advisors, a student may elect to write a thesis on a topic within the discipline. May be repeated to a maximum of six hours.

Prerequisite: permission of instructor.

Typically Offered: Demand

Latin

LTN 625 - Seminar in Latin Literature

Credit Hours: 3

Selected topics in Latin literature such as genre studies, period studies, or concentration on one or more authors. Variable content course. May be repeated once with changed content. May be taught concurrently with LTN 525. Cannot receive credit for both LTN 525 and LTN 625.

Lecture Contact Hours: 3

Typically Offered: Demand

Literacy

LTC 600 - Literacy Projects

Credit Hours: 1-3

This course is designed to provide students an opportunity to informally assess and tutor adults or children exhibiting literacy difficulties. Students are expected to have an increased awareness and understanding pertaining to literacy and to recognize the importance of improving the educational process of adults and children. Number of class hours determined by semester hours of credit. Cannot be substituted for any required reading/literacy course. May be repeated to a maximum of three hours. May be taught concurrently with LTC 599. Cannot receive credit for both LTC 599 and LTC 600.

Typically Offered: Demand

LTC 624 - Analysis and Correction of Difficulties in Adolescent Literacy

Credit Hours: 3

Techniques of analysis and correction of difficulties in literacy for middle school and secondary teachers whose students struggle with literacy skills, such as reading and writing in content areas. Trends in dealing with diagnostic procedures, instructional techniques, special materials, evaluative devices, instructional interventions for students with reading deficits, and community-based experiences for practical implementation. Students concentrate study within their discipline and level of certification. May be taught concurrently with LTC 574. Cannot receive credit for both LTC 574 and LTC 624.

Prerequisite: LTC 474 or concurrent enrollment, or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

LTC 631 - Introduction to Dyslexia: Literacy Development, Language, and the Brain

Credit Hours: 3

This course will begin with an overview of dyslexia. Historical issues, relevant laws and policies, as well as current legislation will be discussed. Students will learn common characteristics and possible identifiers of children with dyslexia and related language difficulties. Common misconceptions and myths related to dyslexia will also be addressed. Foundations of literacy development and an in-depth study of language processing, including orthographic, phonological, semantic, syntactic, and discourse, will be included. This course also addresses the neurobiological aspect of dyslexia, including the role of attention, executive functioning, memory, and processing speed in reading and writing development.

Prerequisite: admission to the graduate certificate in Dyslexia program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LTC 632 - Assessment Procedures for Students with Dyslexia

Credit Hours: 3

This course focuses on assessment procedures and techniques for working with exceptional children, with a strong emphasis on determining whether or not children display characteristics of dyslexia. The course will address differences among screening, diagnostic, outcome, and progress-monitoring assessments, and when it would be most appropriate to use each type of assessment. Students enrolled in the course will also learn how to use assessment results to plan interventions and guide instruction for children with dyslexia or other learning difficulties.

Prerequisite: permission from graduate Literacy Program Coordinator.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LTC 633 - Interventions for Students with Dyslexia

Credit Hours: 3

This course provides students with information on research-based strategies and interventions for use with children identified as dyslexic. Students will learn effective ways to support children who experience difficulties in various aspects of literacy development. The course focuses on explicit instruction and interventions using a multisensory approach. Students will learn how to provide instruction in all areas of literacy, including phonemic awareness, phonics, fluency, vocabulary, comprehension, spelling, and writing.

Prerequisite: permission from graduate Literacy Program Coordinator.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LTC 634 - Dyslexia Practicum: Assessments and Interventions

Credit Hours: 3

This practicum course allows students to work in a one-on-one setting with a child identified as dyslexic or one displaying characteristics of dyslexia. The course allows students to integrate theoretical and practical knowledge gained from previous courses to administer assessments and plan appropriate interventions. Students will submit assessment results, lesson plans, progress monitoring data, in addition to videoed lessons.

Prerequisite: permission from graduate Literacy Program Coordinator.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LTC 640 - Analysis and Correction of Difficulties in Literacy

Credit Hours: 3

Techniques of analysis and correction of difficulties in literacy for elementary, secondary, special education and reading/literacy teachers. Trends in dealing with diagnostic procedures, instructional techniques, special materials, and assessment. Students concentrate study within their level of training. May be taught concurrently with LTC 540. Cannot receive credit for both LTC 540 and LTC 640.

Prerequisite: LTC 318 or both LTC 420 and LTC 421, or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

LTC 656 - Topical Issues in Literacy

Credit Hours: 1-5

To develop understanding and skills in relevant areas of literacy education. Credit hours may vary depending on topic. Variable content course. May be repeated to a maximum of five hours when topics change. A maximum of three hours may be used

toward degree. May be taught concurrently with LTC 556. Cannot receive credit for both LTC 556 and LTC 656 on same topic.

Prerequisite: permission may be required (see class schedule).

Typically Offered: Demand

LTC 660 - Diversity Issues in Literacy and Content Area Instruction

Credit Hours: 3

Designed for preservice and practicing elementary, middle, and high school teachers working on undergraduate degrees in Elementary Education or Secondary Education; as well as graduate degrees in Literacy, Elementary Education, MAT, or other MS or MSED graduate degrees. Students will expand their knowledge of racial, cultural, ethnic, linguistics, and socio-economics diversity; and learn strategies to implement diversity issues into their literacy instruction and/or content area lessons. Students will be introduced to different aspects of diversity through a wide variety of course readings, multicultural literature, videos, guest speakers, multicultural interview, and community field trips. May be taught concurrently with LTC 560. Cannot receive credit for both LTC 560 and LTC 660.

Lecture Contact Hours: 3

Typically Offered: Fall

LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community

Credit Hours: 3

Designed for preservice and practicing middle and high school teachers working on graduate degrees in Literacy, Educational Technology, Master of Arts in Teaching, Master of Arts in Teaching and Learning, Elementary Education, or other MS, MA or MSED graduate degrees. Students will expand their knowledge of ethnicity, race, socio-economics status, gender, exceptionalities, language, religion, sexual orientation, and geographic areas in the context of classrooms, schools, and community; and learn strategies to implement diversity into their literacy instruction and/or content area lessons. Students will be introduced to different aspects of domestic and global diversity through a wide variety of course readings, culturally diverse literature, instructional videos, documentaries, webcasts, and intercultural interviews. May be taught concurrently with LTC 565. Cannot receive credit for both LTC 565 and LTC 665.

Lecture Contact Hours: 3

Typically Offered: Spring

LTC 673 - Psychology of Global Literacies

Credit Hours: 3

The study of the mindset and behaviors involved in the acquisition and application of literacy from multicultural and global perspectives. Students will investigate and analyze the connections between language, literacy, and culture in schools and communities within a global setting. Students will examine the purpose and function of literacy while reading multicultural and international fiction and nonfiction literature. May be taught concurrently with LTC 573. Cannot receive credit for both LTC 573 and LTC 673.

Lecture Contact Hours: 3

Typically Offered: Demand

LTC 680 - Successful Classroom Communities to Enhance Student Learning

Credit Hours: 3

Integration of areas supporting student learning including productive interactions with families. Concentrated modules on literacy learning of regular education students, struggling readers, and exceptional students. Basic principles in effective communication with parents and other professionals to reinforce appropriate classroom learning. Cannot be substituted for any course required for Special Education degrees or certificates. May be taught concurrently with LTC 580. Cannot receive credit for both LTC 580 and LTC 680.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

LTC 685 - Techniques of Responsive Support in the Literacy Classroom

Credit Hours: 3

Techniques to support positive, active learning through appropriate response to intervention plans within the literacy classroom. Study of alternative and appropriate behaviors to meet students' needs in acceptable ways through modeling, guided practice, and cueing within a supportive environment, which includes teachers, parents, and other stakeholders in student's learning. Cannot be substituted for SPE 515, SPE 615, SPE 616, or any course required for a SPE degree or certificate. May be taught concurrently with LTC 585. Cannot receive credit for both LTC 585 and 685.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

LTC 700 - Relationship of Language to Literacy and Intellectual Development

Credit Hours: 3

Utilizing elements of language and intellectual development which provide the basis for the development of appropriate literacy skills. Helping teachers gain skill in using teaching strategies which help children develop language and intellectual competencies.

Lecture Contact Hours: 3

Typically Offered: Spring

LTC 710 - Content Area Literacy

Credit Hours: 3

Teaching subject matter in content areas in ways for utilizing and further developing fundamental literacy; effective reading and writing skills, vocabulary development in specific areas, study skills, utilization of cognitive processes.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

LTC 720 - Use of Multi-Media Resources in Literacy

Credit Hours: 3

Criteria, methods and tools for selection and effective utilization of both print and nonprint material, enhancing and encouraging competency in literacy; production of materials utilizing various media. Students concentrate study within their level of training (elementary or secondary.)

Lecture Contact Hours: 3

Typically Offered: Demand

LTC 730 - Assessment and Instruction of Less Skilled Readers and Writers**Credit Hours:** 3-6

Supervised small group practice in a clinical setting assessing and instructing students who are experiencing difficulty learning to read and write. Planned with and directed by a graduate faculty member. Less intensive and more generalized clinical experience for those not intending to pursue Special Reading Teacher certification. Cannot be substituted for any course required for special reading certification (LTC 540/LTC 640, LTC 780, LTC 781, or LTC 782). Students in Literacy program must enroll for 6 hours, others may enroll for 3 hours.

Prerequisite: LTC 318; or both LTC 420 and LTC 421, or equivalent.

Typically Offered: Demand

LTC 740 - Issues and Trends in Literacy Education**Credit Hours:** 3

Provides intensive study of significant issues and trends in literacy education. Emphasis on locating and analyzing current issues and trends and encouraging teachers and administrators to apply the information to research-based best practices in the classroom.

Lecture Contact Hours: 3

Typically Offered: Summer

LTC 760 - Multilingual Approaches to Literacy**Credit Hours:** 3

Advanced study of multilingual approaches to literacy development of culturally and linguistically diverse learners. Includes culturally and linguistically sustaining instructional approaches, dual language instructional modalities, utilizing home language and literacy practices in classroom contexts, family literacies, promoting equity for English learners, culturally congruent discourse practices, and uses of multilingual texts across content areas. Students will review best practices and theories of literacy development for linguistically diverse students, plan and conduct literacy sessions with emergent bilinguals, submit weekly reports from literacy sessions, and submit a final in-depth reflection of literacy sessions.

Lecture Contact Hours: 3

Typically Offered: Spring

LTC 770 - Curriculum Design in Literacy

Credit Hours: 3

This course examines the theories and research on literacy from comprehension to implications for instructional practice. Candidates will gain knowledge and share with classmates influences on the teaching of literacy, which may include practices from historical to contemporary times. Research and read literature to prepare for establishing a total school literacy curriculum.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

LTC 780 - Assessment Procedures for the Literacy Specialist**Credit Hours:** 3

Designed especially for the special reading teacher or literacy coach who needs an advanced course for special reading teacher certification. Psycho-educational testing techniques, multisensory teaching techniques, report writing, resource personnel, and clinic operations will form the basis for this course.

Prerequisite: LTC 640.

Lecture Contact Hours: 3

Typically Offered: Spring

LTC 781 - Assessment of Literacy Problems**Credit Hours:** 3

Supervised individual practice diagnosing literacy problems. Students work with elementary, secondary, or adult learners. Includes 4 hours of practicum.

Prerequisite: LTC 780; and concurrent enrollment in LTC 782.

Corequisite: LTC 782

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring, Summer

LTC 782 - Remediation of Literacy Problems**Credit Hours:** 3

Supervised individual practice with remedial procedures for literacy problems. Students work with elementary, secondary, or adult learners. Includes 4 hours of practicum.

Prerequisite: LTC 780; and concurrent enrollment in LTC 781.

Corequisite: LTC 781

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring, Summer

LTC 791 - Problems in Literacy Education

Credit Hours: 1-3

In consultation with the advisor, major issues in the field of literacy education are selected for investigation through independent study. Number of hours of involvement determined by semester hours of credit. May be repeated to a maximum of three hours.

Typically Offered: Demand

LTC 795 - Literary Research Methods

Credit Hours: 3

An introduction to research methods in the field of literacy. In-depth study of a topic in literacy resulting in a culminating project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

LTC 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis. May be repeated to a maximum of six hours.

Prerequisite: SFR 780.

Typically Offered: Demand

Materials Science

MAT 609 - Special Topics in Materials Science

Credit Hours: 1-3

Variable content course. Topics to be chosen from current areas of interest in Materials Science. May be repeated to a maximum of six hours with a different topic. May be taught concurrently with MAT 509. Cannot receive credit for both MAT 509 and MAT 609.

Prerequisite: permission of instructor.

Typically Offered: Demand

MAT 614 - Techniques in Electron Microscopy

Credit Hours: 2

An introduction to techniques in electron microscopy with a primary emphasis on scanning electron microscopy and X-ray microanalysis. Theoretical background and experimental procedures involve both techniques but the major focus will be on obtaining secondary electron images. Additional coverage will include sample preparation, back-scattered electron imaging, X-ray mapping, and related image processing techniques. May be taught concurrently with MAT 514. Cannot receive credit for both MAT 514 and MAT 614.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Spring Even

MAT 640 - Thermodynamics of Materials

Credit Hours: 3

Review of classical thermodynamics, equilibrium in thermodynamic systems, the statistical interpretation of entropy, unary and multi-component systems, thermodynamics of phase diagrams and phase equilibrium. May be taught concurrently with MAT 540. Cannot receive credit for both MAT 540 and MAT 640.

Prerequisite: PHY 343 or CHM 506 or CHM 606.

Lecture Contact Hours: 3

Typically Offered: Fall Even

MAT 651 - Introduction to Materials Science

Credit Hours: 3

Investigation of the relationships that exist between the structure, properties, processing and performance of materials. Different types of materials will be studied with a special emphasis on polymers and semiconductors. Structure-property correlations, including electronic, thermal, and mechanical properties, will be presented for these materials. May be taught concurrently with MAT 550. Cannot receive credit for both MAT 550 and MAT 651.

Prerequisite: PHY 375 or CHM 507 or CHM 607.

Lecture Contact Hours: 3

Typically Offered: Fall

MAT 681 - Structure of Solids

Credit Hours: 3

Review of quantum mechanics, followed by an in-depth study of crystal structures, energy band structures in solids, lattice dynamics, and a survey of the physical properties of solids. May be taught concurrently with MAT 580. Cannot receive credit for both MAT 580 and MAT 681.

Prerequisite: PHY 375 or CHM 507 or CHM 607.

Lecture Contact Hours: 3

Typically Offered: Spring Even

MAT 720 - Advanced Quantum Mechanics

Credit Hours: 3

Advanced topics in quantum mechanics including variational methods, approximation techniques, time-independent and time-dependent perturbation theory, second quantization, and the interactions of light with matter.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

MAT 750 - Experimental Design

Credit Hours: 3

Laboratory techniques necessary for the development of instrumentation. Topics will include elementary computer interfacing, prototype design, mechanical and electronic construction, and reliability testing. The student will develop, design and build a test instrument and study each of the above topics during this process.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring Odd

MAT 758 - Optoelectronic Materials

Credit Hours: 3

Course includes the study of advanced electronic properties of materials, lattice dynamics, and a survey of the optical-electronic interactions in materials.

Lecture Contact Hours: 3

Typically Offered: Spring

MAT 770 - Synthesis and Characterization of Advanced Materials

Credit Hours: 3

Experimental techniques in the synthesis of advanced materials applications in electronics and energy technology. The mechanism of growth of thin films using different deposition techniques will be studied. Structural and physical characterization of the thin films will also be studied. Experimental methods including physical vapor deposition, X-ray diffraction, and optical spectroscopies and analysis will be studied.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring Even

MAT 780 - Polymer Preparation and Characterization

Credit Hours: 3

Preparation of polymers, including the techniques of condensation polymerization, free radical polymerization, and if time permits, plasma polymerization. Characterization experiments will be viscosity measurements, differential scanning calorimetry, and thermal gravimetric analysis. Film preparation including spin coating, aspiration, and doctor blade systems will also be investigated.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring

MAT 790 - Statistical Applications in Materials Science

Credit Hours: 3

Selective topics in materials science important to the design, testing, fabrication, and manufacture of materials whose underlying theme is mathematical modeling based in statistical methods. The topics include mass transport in solids, atomic diffusion on surfaces, adsorption and desorption on surfaces, epitaxial growth, degradation of materials, queuing theory, and operations research.

Lecture Contact Hours: 3

Typically Offered: Spring

MAT 792 - Introduction to Computational Materials Science

Credit Hours: 3

The course aims to provide an introduction to and practical applications in high-performance computing as implemented in atomistic-based computational materials science. Topics include electronic structure calculations, classical molecular dynamics, Monte-Carlo simulations and crystal structure predictions for materials processes and/or fundamental materials properties.

Prerequisite: PHY 575 or PHY 675 or equivalent Introduction to Quantum Mechanics course.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

MAT 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (480 hours) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

MAT 798 - Seminar in Materials Science

Credit Hours: 1

Selected topics in materials science of a theoretical, experimental, or applied nature with an emphasis on recent developments and their impact. May be repeated to a maximum of four hours.

Prerequisite: candidate for the MS degree in Materials Science.

Typically Offered: Spring

MAT 799 - Research in Materials Science

Credit Hours: 1-6

Supervised research in areas of materials science. May be repeated, but no more than 12 hours may be counted toward the MS degree.

Prerequisite: permission.

Typically Offered: Demand

Media

MED 600 - Special Topics in Media

Credit Hours: 1-3

A course upon a single topic of current interest. Topics may include: Asian Horror Cinema; Great Directors; Sci-Fi Noir; The Films of the Coen Brothers; Advanced Storytelling; Promoting Yourself in the Digital Age; Miyazaki!; Disney Animation: The Golden Age; Warner Bros. Animation: The Golden Age; Steadicam Practicum; Selling Your Idea: The Art of the Pitch; Collaborate: Make a Web Series; Storytelling Across All Media; Reality TV and Genre; Writing the Short Film. May be repeated to a maximum of six hours if topics are different. May be taught concurrently with MED 300. Cannot receive credit for both MED 300 and MED 600 for the same topic.

Typically Offered: Demand

MED 610 - Playwriting I

Credit Hours: 3

An introduction to the craft of playwriting with a focus on process. Students learn dramatic structure, complete writing assignments, and analyze their scripts in workshops before ultimately writing and revising a 20-30 minute one-act play.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 642 - TV/Film Producing

Credit Hours: 3

An in-depth examination of the producer's various roles in television and film production. Practical experience with grant writing, script breakdowns, scheduling, budgets, and business plan development will provide the student with an understanding of the various aspects of production and how the development and structure of the script can affect the production's outcome. May be taught concurrently with MED 462. Cannot receive credit for both MED 462 and MED 642.

Lecture Contact Hours: 3

Typically Offered: Fall

MED 652 - Preproduction

Credit Hours: 3

Principles, skills, and techniques involved in preproduction for television or film. Practical experience in writing, rewriting, and producing elements to develop a film, pilot, series or season of an existing series. Producing elements include fundraising,

location scouting, designing and creating sets, acquiring props and wardrobe, casting, workflow, technical elements, system needs, and marketing. May be taught concurrently with MED 552. Cannot receive credit for both MED 552 and MED 652.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 Lab Contact Hours: 3

Typically Offered: Fall

MED 660 - Beginning Screenwriting

Credit Hours: 3

An introduction to the fundamental craft of writing for film and television. Students will learn format, structure, and the principles of character-based storytelling, as well as the basics of the film and television industry. Combining lectures and workshops, students will focus on scene work before outlining and completing a short film script. Variable content course. May be repeated to a maximum of six hours when project changes. May be taught concurrently with MED 360. Cannot receive credit for both MED 360 and MED 660 for the same project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 661 - Sound Mixing

Credit Hours: 3

An in-depth exploration of the art of sound design for digital film and TV. Students will learn how to carry out the aesthetic considerations of sound through the mixing process. Emphasis will be placed on advanced sound editing for sub- and final mixing, mix engineering, sound-effect processing and surround-sound practice. Students will learn how to mix a movie's dialogue, sound effects, ambience and music into stereo and surround tracks. May be taught concurrently with MED 561. Cannot receive credit for both MED 561 and MED 661.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Fall

MED 662 - Digital Filmmaking Capstone

Credit Hours: 3

A film-style production class in high-definition digital filmmaking. Students will form small production teams to plan, design, and produce short narrative films. May be taught concurrently with MED 562. Cannot receive credit for both MED 562 and MED 662.

Prerequisite: six hours of intermediate production courses and permission of the instructor.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

MED 663 - Writing Adaptations for Television and Film

Credit Hours: 3

Study and practice in adapting material for television or film. During the course, students will select a source to adapt and will outline and begin writing their script. Variable content course. May be repeated when project changes. May be taught concurrently with MED 463. Cannot receive credit for both MED 463 and MED 663 for the same project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 664 - Genre Writing for Television and Film**Credit Hours:** 3

An overview of the expectations and requirements of various genres in both film and television. Students will study past, present and possible future trends of each genre in the professional marketplace. The course will focus on what defines audience expectations as students write for different genres. Variable content course. May be repeated when project changes. May be taught concurrently with MED 464. Cannot receive credit for both MED 464 and MED 664 for the same project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 667 - Intermediate Screenwriting**Credit Hours:** 3

Writing the feature film screenplay. Students will study format, structure, and the effective tools of screenwriting. The course will include discussion of feature films and their screenplays, as well as the business of professional screenwriting. Students will create a premise, outline their projects, and write the first act of a feature-length film. Variable content course. May be repeated when project changes. May be taught concurrently with MED 565. Cannot receive credit for both MED 565 and MED 667 for the same project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 668 - Writing for Television**Credit Hours:** 3

This course will focus on the foundations of structure, character, conflict, dialogue, and setting, and how to apply these elements to storytelling on the small screen. Students will learn to pitch their ideas effectively to writer-producers and then outline, write, and polish a spec script for a currently running television series. Variable content course. May be repeated when project changes. May be taught concurrently with MED 566. Cannot receive credit for both MED 566 and MED 668 for the same project.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 670 - Film Theory

Credit Hours: 3

An analysis of the art of film by using classical and contemporary film theory to investigate such aspects as the relationship between form and content, visual style, and the nature of pictorial motion. Weekly screenings and discussions of short film excerpts, complete classics and contemporary films. May be taught concurrently with MED 570. Cannot receive credit for both MED 570 and MED 670.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Spring

MED 671 - Writing the Web Series**Credit Hours: 3**

An advanced practicum in conceiving and collaboratively writing an original episodic series for the web. Students will work together in an intimate writers' room atmosphere to develop original web series for future production at Missouri State. Emphasis will be on sustainable premises, filmable budgets, and compelling character-based conflicts. Variable content course. May be repeated to a maximum of six hours when project changes. May be taught concurrently with MED 568. Cannot receive credit for both MED 568 and MED 671 for the same project.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 672 - Advanced Screenwriting**Credit Hours: 3**

Focus on group discussion and criticism. Students either build on past work to complete a feature length screenplay or else write a new television pilot and series bible. Variable content course. May be repeated to a maximum of six hours when project changes. May be taught concurrently with MED 569. Cannot receive credit for both MED 569 and MED 672 for the same project.

Prerequisite: MED 667 or MED 668 or permission of Instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 674 - History of Film I**Credit Hours: 3**

An examination of the evolution of film technique and theory from 1895 to World War II. Emphasis is placed on the social impact of film and on the artistic and technical aspects of the medium. Viewing of selected films outside of class may be required. May be taught concurrently with MED 374. Cannot receive credit for both MED 374 and MED 674.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Fall

MED 675 - History of Film II

Credit Hours: 3

An examination of the evolution of film technique and theory from World War II to the present. Emphasis is placed on the social impact of film and on the artistic and technical aspects of the medium. Viewing of selected films outside of class may be required. May be taught concurrently with MED 375. Cannot receive credit for both MED 375 and MED 675.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 680 - Media in Politics**Credit Hours: 3**

An in-depth examination of the role of print and electronic media in American politics. Emphasis is placed on media coverage of government, social issues, and political campaigns. The course examines both the strategies of paid media and the media's coverage of politics as news. May be taught concurrently with MED 580. Cannot receive credit for both MED 580 and MED 680.

Lecture Contact Hours: 3

Typically Offered: Demand

MED 681 - Media Ethics and Law**Credit Hours: 3**

An examination of legal and ethical issues in media, including news and information media, entertainment media, and social media. Focus on the historical foundations of media rights and regulation and the application of ethical principles to past and current debates about media practice and content. May be taught concurrently with MED 581. Cannot receive credit for both MED 581 and MED 681.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MED 683 - Advanced Television Production**Credit Hours: 3**

Principles, skills, and techniques involved in advanced television production. Practical experience in writing, producing, directing and editing non-fiction television content for a video-magazine, news show, and/or promotions. May be taught concurrently with MED 583. Cannot receive credit for both MED 583 and MED 683.

Prerequisite: MED 383.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

MED 684 - Producing the Feature Film**Credit Hours: 3**

This course will present the essential components of entrepreneurial producing, including obtaining investors, pre-sales, international co-financing and production, business negotiations, collaborating with unions and film commissions, procuring A-List talent, and others. Students will workshop an existing feature film with the intentions of "pitching" a modern remake to ideal investors and distribution outlets. Students will design a comprehensive package - including financing, budgeting, marketing and distribution strategy - that is realistic in the contemporary marketplace. May be taught concurrently with MED 582. Cannot receive credit for both MED 582 and MED 684.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 690 - Special Topics in Film

Credit Hours: 3

An examination of special topics from historical or current interest in film. Topic will vary from semester to semester depending on student interest and faculty availability. Approved recurring course topics: Animation, Asian Cinema, Postmodern Trends in Movies, Women Directors, Women Characters in Film. Viewing of selected films outside of class may be required. Variable content course. May be repeated to a maximum of six hours when the topic is different. May be taught concurrently with MED 470. Cannot receive credit for both MED 470 and MED 690 for the same topic.

Lecture Contact Hours: 3 **Lab Contact Hours:** 1

Typically Offered: Demand

MED 693 - Rewriting Features and Pilots

Credit Hours: 3

An examination of the many phases of rewriting television or feature length screenplays for professional submission. Students will rewrite and workshop their scripts with an eye toward the current marketplace. Variable content course. May be taught concurrently with MED 593. Cannot receive credit for both MED 593 and MED 693 for the same project.

Prerequisite: MED 672.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 695 - Media Internship

Credit Hours: 1-6

Work experience with a professional media organization. The student will be provided an educational opportunity not available through classroom experience. The instructor must approve all necessary paperwork before the student may begin the internship. May be repeated to a maximum of six hours. May be taught concurrently with MED 595. Cannot receive credit for both MED 595 and MED 695.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MED 696 - Postproduction

Credit Hours: 3

Principles, skills, and techniques involved in postproduction for television or film. Practical experience in post workflow, editing, sound design, mixing and marketing to create professional media products. May be taught concurrently with MED 596. Cannot receive credit for both MED 596 and MED 696.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Summer

MED 697 - Advanced Studies in Media**Credit Hours:** 3

In-depth examination of a special topic in media. Variable content course. May be repeated to a maximum of six hours. May be taught concurrently with MED 597. Cannot receive credit for both MED 597 and MED 697.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

MED 704 - Theory and Research in Mass Communication**Credit Hours:** 3

Survey of theories, models and research in mass communication. Topics include propaganda, attitude change, agenda setting and media effects research.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 711 - Fundamentals of Screenwriting**Credit Hours:** 3

An introduction to the fundamental craft of writing for film, television, and the web. Students learn format, structure, and the principles of character-based storytelling, as well as some basics of the film and television industry. Combining lectures and workshops, students focus on scene work before outlining and completing a short film script.

Lecture Contact Hours: 3 **Lab Contact Hours:** 1

Typically Offered: Fall

MED 712 - Feature Film Writing I**Credit Hours:** 3

The course will include discussion of feature films and their screenplays, as well as the business of professional screenwriting. Students will create a premise, outline their projects, and write the first act of a feature-length film.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Fall

MED 713 - Feature Film Writing II

Credit Hours: 3

Students workshop and complete the scripts for the feature films begun in MED 712.

Prerequisite: MED 712.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Spring

MED 714 - Writing Episodic Television

Credit Hours: 3

Focus on the television industry and how to apply the fundamentals of screenwriting to episodic storytelling for the small screen. Students will learn to pitch their ideas effectively to writer-producers and then outline, write, and polish a spec script for a currently running television series.

Prerequisite: MED 711.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Spring

MED 715 - Rewriting

Credit Hours: 3

An examination of the many phases of rewriting feature-length screenplays for professional submission. Students will rewrite and workshop their scripts with an eye toward the current marketplace.

Prerequisite: MED 713.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Summer

MED 716 - Writing Episodic Pilots

Credit Hours: 3

Students will analyze successful series pilots and learn about the process and demands of creating an original television or web series. After selecting an original premise, students then design a series bible, and write a completed pilot episode for a unique television or web series.

Prerequisite: MED 714 or permission of instructor.

Lecture Contact Hours: 3 Lab Contact Hours: 1

Typically Offered: Fall

MED 717 - Portfolio Script I

Credit Hours: 3

Intensive workshop of a new feature film script, full-length play, series pilot, or equivalent work aimed for the current marketplace. This course will include pitching, premise selection, in-class staged readings, and roundtable feedback sessions.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

MED 718 - Portfolio Script II

Credit Hours: 3

Advanced workshop of the revised feature film script, full-length play, series pilot, or equivalent work developed in MED 717. Students will complete extensive rewrites and polishes to prepare the script for professional submission.

Prerequisite: MED 717.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 719 - Portfolio Review

Credit Hours: 3

Students will prepare their professional writing portfolio, completing multiple rewrites and polishes to get all components (two features, two shorts, a pilot and spec TV script, and a one-act play) ready for professional submission.

Prerequisite: MED 718 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

MED 764 - Visual Storytelling

Credit Hours: 3

An introductory course in cinematic storytelling. Students will write, shoot, and edit short video production projects, analyzing and discussing them in class.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

MED 765 - Directing for Film and Stage

Credit Hours: 3

An examination of the basic principles, skills, and techniques of directing for both film and the stage. Students will explore techniques for successful script/scene analysis, visualization, collaboration with cast and crew, and set management. They will also learn procedures in selecting, analyzing, casting, and producing a play. Through hands-on assignments students will gain practical experience in both areas of directing.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

MED 766 - Pre-Production Practicum for Stage and Screen**Credit Hours: 3**

Practicum in pre-production for both web series and stage projects.

Prerequisite: MED 684 and MED 642.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

MED 767 - Staged Production**Credit Hours: 3**

Practicum in staging productions for web series and theater.

Prerequisite: MED 766.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

MED 781 - Producing the Short Film**Credit Hours: 1-6**

Practicum in producing a short narrative film. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 782 - Producing the Web Series**Credit Hours: 1-6**

Practicum in producing a narrative scripted web series. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 783 - Producing the Multicam Show

Credit Hours: 1-6

Practicum in producing multicamera studio projects. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 784 - Producing the Documentary

Credit Hours: 1-6

Practicum in producing either short or feature documentary project. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 785 - Producing the Longform Narrative

Credit Hours: 1-6

Practicum in producing components of feature films. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 786 - Producing the Stage Play

Credit Hours: 1-6

Practicum in theater producing. Students will work closely with faculty supervisor. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 792 - Independent Study in Media

Credit Hours: 1-6

Supervised independent study in research of theories or application of learning through a creative project. Variable content course. May be repeated to a maximum of six hours if the content of the research or the project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

MED 793 - Practicum in Producing or Production

Credit Hours: 1-6

Students will work closely with faculty supervisor to produce and create film, television, or internet projects. Particular focus on leadership and communication skills, as well as using technology appropriate to the professional workplace. Variable topic course. May be repeated to a maximum of six hours with permission of the department when project is different.

Typically Offered: Demand

MED 794 - Practicum in Playwriting

Credit Hours: 1-6

Supervised independent writing project in playwriting. Variable content course. May be repeated to a maximum of six hours if the content of the research or the project is different.

Prerequisite: permission of instructor.

Typically Offered: Demand

Management

MGT 600 - Administrative, Organizational and Operations Concepts for Managers

Credit Hours: 3

Comprehensive study of the fundamentals of the management function, organizational behavior and design, and production and operations management. Designed for graduate students who have not had undergraduate courses in management or organizational behavior and operations management. This course will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business graduate program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MGT 646 - Direct Compensation System Management

Credit Hours: 3

Development and management of job-based and individual-based pay systems using job evaluation, skill/competency analysis and certification, wage surveys, and related techniques. The development of performance appraisal systems and the creation of individual-based, team-based, and aggregate performance-based pay systems are studied with emphasis on the strategic aspects of pay, internal consistency, external competitiveness, and legal compliance. May be taught concurrently with MGT 546. Cannot receive credit for both MGT 546 and MGT 646.

Lecture Contact Hours: 3

Typically Offered: Spring

MGT 680 - History of Management Thought

Credit Hours: 3

Background and interrelationship of classical, behavioral science, systems and quantitative management schools of thought; works of major contributors to contemporary management concepts, practices and theory. May be taught concurrently with MGT 560. Cannot receive credit for both MGT 560 and MGT 680.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 697 - Research Issues and Problems: Management**Credit Hours:** 1-3

Research issues and projects growing from particular needs which may require additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be taught concurrently with MGT 596. Cannot receive credit for both MGT 596 and MGT 697.

Prerequisite: permission of department head.

Typically Offered: Demand

MGT 701 - Health Services Organization**Credit Hours:** 3

Introduction to the United States health services delivery system. Analysis of the organizing, financing, and distribution of health services. Hospitals, acute care facilities, long-term facilities, prepaid practices, fee-for-services group practices and others are examined. Forces shaping present and future health care are evaluated from a global perspective.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MGT 702 - Managing Healthcare Organizations**Credit Hours:** 3

A broad overview of techniques and practices applied to managing healthcare organizations at all levels including governing board; professional staff; executive offices; and operational systems that deliver acute care, rehabilitation, diagnosis, therapy, ambulatory care, clinical information, clinical support, patient access, facilities and nutrition services. Organizational settings will include hospitals; physician practices; integrated health systems; rehabilitation and sub-acute facilities; behavioral medicine; long-term care; hospice; and home health. Course format will include a series of guest presentations from actively practicing senior healthcare executives, along with visits to healthcare organizations.

Lecture Contact Hours: 3

Typically Offered: Spring

MGT 703 - Health Law and Ethics**Credit Hours:** 3

This course will provide students with in-depth knowledge and understanding of legal and ethical issues facing healthcare managers. Statutory and common law legal doctrines applicable to hospitals, physicians, health systems and organizations, including current court decisions, Office of Inspector General and Internal Revenue Service determinations will be included. The course will touch on many legal and ethical subjects, including professional and institutional liability, provider-patient relationships, compliance-related areas that include Stark regulations, end-of-life care, physician-assisted suicide, and individual patient rights.

Lecture Contact Hours: 3

Typically Offered: Spring

MGT 704 - Human Resources in Healthcare Organizations

Credit Hours: 3

Integration of human resources management into the strategic and operational decision-making processes of a contemporary healthcare organization. Functional topics include HR strategic planning, HR legal environment, organizational culture, diversity and inclusion, compensation strategies, recruitment/selection/retention, performance management and motivation, workforce development/training, employee/labor relations, employee safety and sexual harassment. Particular consideration of these HR concepts will be related to clinical and non-clinical professionals and employed and non-employed physicians.

Lecture Contact Hours: 3

Typically Offered: Spring

MGT 705 - Strategic Management of Healthcare Organizations

Credit Hours: 3

Integration of the functional areas of healthcare organizations via the strategic planning process. Emphasis is placed upon the identification of major strategic processes for healthcare organizations as well as policy issues related to the current and anticipated future healthcare environment.

Lecture Contact Hours: 3

Typically Offered: Fall

MGT 706 - Organizational Communication

Credit Hours: 3

Intensive study of communication behavior within various types of business organizations; provides student opportunities to develop communication skills further and to apply one's capacity to use effective organizational communication concepts through written and oral presentations. Emphasis upon the study of oral communication within business.

Lecture Contact Hours: 3

Typically Offered: Fall

MGT 708 - Healthcare Informatics

Credit Hours: 3

Healthcare informatics merges healthcare and technology by using resources, devices, and methods required to acquire, store, retrieve, and use health and medical data. This course examines the knowledge and skills needed by healthcare executives to manage information and information systems in a modern healthcare organization. Students will investigate the qualities necessary to strategically evaluate, select and implement system-wide informatics. Topics include clinical data, standards, electronic medical records, computerized provider order entry, decision support, telemedicine, and consumer applications.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 711 - Measurement and Management of Quality in Health Care**Credit Hours: 3**

Design and management of quality systems in healthcare operations. Major emphasis placed on measurement, analysis, and improvement consistent with Lean Six Sigma principles. Acquisition of skill set and use of tools to increase value in the clinical and administrative settings.

Lecture Contact Hours: 3

Typically Offered: Spring

MGT 747 - International Management**Credit Hours: 3**

A study of management theory and practices as related to international organizations that are multinational in nature. Emphasis is placed on analyzing, understanding, and integrating managerial concepts as they apply to cross-cultural settings. Students are required to complete a research project. Cannot receive credit for both MGT 447 and MGT 747.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; and MGT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 760 - Selected Topics in Management**Credit Hours: 3**

Variable topics course in Management. Areas studied will be announced each semester in the class schedule. Course requirements include extensive readings, a paper, and, when appropriate, field trips.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 761 - Operations Management: Comparative Theory and Practice**Credit Hours: 3**

Advanced study of the operations function in organizations. Emphasis is placed on operations management, planning and controlling techniques as they apply to all types of domestic and international organizations. Cost output-profit decisional techniques and productivity issues are studied as they relate to managerial goals, environmental conditions, and economic developments.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 762 - Problems in Human Resources Management and Industrial Relations

Credit Hours: 3

Intensive examination of the institutional, legal, and policy considerations of the parties involved in human resources management and labor relations with an emphasis on current issues.

Prerequisite: MGT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 764 - Organizational Behavior and Leadership

Credit Hours: 3

Study of individual and group behavior viewed from a managerial perspective within the organizational setting. Attention is focused on applications by managers of theory and research about the interaction between human beings and the formal organization, with emphasis on individual differences, interpersonal relations, and small group dynamics.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; and MGT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MGT 765 - Organization Structure and Design

Credit Hours: 3

An intensive macro approach to the study of the organization with emphasis on the interrelationships of organizational dimensions as they interact to effect organization design. Topics covered include environment, technology, work flows, structure, size, power, objectives, managerial philosophies, and effectiveness.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 767 - Organization Strategy and Policy

Credit Hours: 3

Integration of the functional areas of business via the strategic planning process. Emphasis is placed upon the formulation, implementation, and control of an organization's mission, objectives, strategies, and policies as determined by external and

internal analyses.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; 18 graduate hours in business administration and economics at THE 700 level, including FIN 780 and MKT 772.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MGT 770 - Leadership Development

Credit Hours: 3

Comprehensive review and application of various theories regarding leadership. The course involves significant reading and presentations. The course focuses on building skills through the use of comprehensive self-assessments, experiential exercises, and learning projects.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 780 - MHA Capstone Seminar

Credit Hours: 3

In this course, students will integrate all of the theories and knowledge gained throughout the MHA program to apply a systems-based approach to a project designed to present challenging opportunities for strategic decision-making. Capstone projects allow students the chance to apply their coursework in organizational settings of their choice that include their employer, hospitals, clinics, community health agencies, local, state, and federal public health agencies and non-profit organizations.

Prerequisite: 24 hours completed in graduate health administration courses.

Lecture Contact Hours: 3

Typically Offered: Fall, Summer

MGT 790 - Seminar in Management

Credit Hours: 3

Critical evaluation and analysis of theory, research and practice in management.

Prerequisite: 15 hours of graduate business administration courses and permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Demand

MGT 794 - Internship: Management

Credit Hours: 3

In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

Prerequisite: permission of the director of the appropriate graduate program and department head.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MGT 796 - Independent Study: Business Administration

Credit Hours: 1-3

In consultation with the advisor, student selects for intensive study a specific area of concern related to the student's program with emphasis on research.

Prerequisite: permission of advisor.

Typically Offered: Fall

MGT 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission.

Typically Offered: Demand

Middle School Education

MID 725 - Advanced Theory and Practice in the Teaching of Early Adolescents

Credit Hours: 3

Materials, methods, and procedures for designing developmentally appropriate learning experiences for early adolescents; current trends and issues in the field.

Lecture Contact Hours: 3

Typically Offered: Fall

MID 810 - Foundations of Middle Level Education

Credit Hours: 3

An examination of educational programs most appropriate for students in late childhood and early adolescence with emphasis upon the philosophy, curriculum, instruction, and middle grades education.

Lecture Contact Hours: 3

Typically Offered: Demand

Marketing

MKT 600 - Marketing Concepts for Managers

Credit Hours: 3

Comprehensive study of the fundamentals of marketing. Designed for graduate students who have not had an undergraduate course in marketing. Will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business Graduate Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 610 - Digital and Social Media Marketing

Credit Hours: 3

An exploration and evaluation of marketing activities as they pertain to social media and an organization's online presence. Topics include the various tools available to marketers for establishing a social media presence, evaluating the effectiveness of social media strategies, and the use of online tools like display ads as part of an integrated marketing campaign. May be taught concurrently with MKT 510. Cannot receive credit for both MKT 510 and MKT 610.

Prerequisite: MKT 600 or MKT 772.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 615 - Contemporary Issues in Advertising/Promotion

Credit Hours: 3

This course will develop problem-solving and strategic planning skills as they relate to contemporary issues in advertising. Specific topics covered will vary depending on the current issues occurring during the course. Case studies and contemporary readings will replace the traditional marketing textbook. In-class discussion, participation, and application will complement traditional lectures. May be taught concurrently with MKT 515. Cannot receive credit for both MKT 515 and MKT 615.

Prerequisite: MKT 350 or MKT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 670 - Marketing Analytics

Credit Hours: 3

This course covers a wide variety of analytical techniques commonly used to interpret marketing data, including but not limited to multiple regression analysis, general linear modeling, cluster analysis (for market segmentation), and multidimensional scaling (for perceptual maps). Emphasis is placed on using data to inform marketing policies and strategy. Students will use SPSS to edit and analyze primary and secondary data. May be taught concurrently with MKT 570. Cannot receive credit for both MKT 570 and MKT 670.

Prerequisite: 15 hours of graduate business administration courses including MKT 772 and permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 675 - Business Process Management

Credit Hours: 3

An in-depth analysis of business processes from an operations perspective. Study of specific practices and tools to design, improve, and support these processes in a variety of organizational settings. Use of professional BPM software is emphasized. May be taught concurrently with MKT 565. Cannot receive credit for both MKT 565 and MKT 675.

Lecture Contact Hours: 3

Typically Offered: Fall

MKT 730 - Logistics and Transportation

Credit Hours: 3

This course introduces students to the concepts and terminology associated with the planning and management of logistics activities. The course investigates introductory decisions in inventory management, warehousing, transportation, customer service, performance measurement, and others.

Prerequisite: MKT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 740 - Supply Chain Models and Systems

Credit Hours: 3

This course addresses concepts, techniques and systems used in supply chain management and decision support. Specific areas include ERP systems, manufacturing planning and management techniques and systems, inventory management, warehouse layout, distribution management, routing and scheduling, process analysis, network analysis and the application of simulation and optimization techniques.

Lecture Contact Hours: 3

Typically Offered: Fall

MKT 750 - Supply Chain Management Seminar

Credit Hours: 3

This course emphasizes the adoption of a supply chain orientation toward business and the need for more effective inter-firm relationships and operational processes. The course incorporates analyses of comprehensive cases involving strategic and tactical decisions throughout product and service supply chains in a domestic and global environment.

Prerequisite: 15 hours of graduate business administration courses and permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Spring

MKT 760 - Logistics and Supply Chain Management

Credit Hours: 3

This course serves as a capstone experience involving actual company projects, a comprehensive supply chain simulation exercise, and the identification and discussion of current events in logistics and supply chain management. Class sessions are augmented by discussions of current events involving logistics and supply chain management.

Prerequisite: MKT 740 or MKT 750.

Lecture Contact Hours: 3

Typically Offered: Spring

MKT 764 - Global Supply Chain Management

Credit Hours: 3

Principles of logistics activities in international business with special emphasis on transportation, global sourcing, customs issues, import-export opportunities, customs documentation, the role of government in international transactions, customer service, and global supply chain management. Special emphasis is placed on current events and their effect on the marketing and logistics activities of organizations. Cannot receive credit for both MKT 764 and MKT 464.

Prerequisite: admission to the MBA program or permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Spring

MKT 772 - Marketing Management

Credit Hours: 3

Theoretical bases of marketing concepts, principles and strategies; development, acceptance and expected future direction of emerging marketing practices.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; and MKT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 774 - International Marketing

Credit Hours: 3

Advanced management, theory, and analysis of marketing functions in a multinational context where the parameters differ from those of domestic marketing. Students are required to complete a research project in the course area. Cannot receive credit for both MKT 774 and MKT 474.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; MKT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 776 - Futuristics: Business and Society

Credit Hours: 3

This course compares and analyzes the diverging views of an "economy of abundance" versus that of an "economy of scarcity." Major emphasis is directed toward predicting further changes in and the impact on the nature of firm, consumer life-styles, and society in general. Students are required to complete a research project in the course area.

Prerequisite: MKT 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

MKT 790 - Seminar in Marketing

Credit Hours: 3

Critical evaluation and analysis of theory, research, and practice in marketing.

Prerequisite: 15 hours of graduate business administration courses and permission from the MBA Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 794 - Internship: Marketing

Credit Hours: 3

In consultation with the coordinating professor, the student is engaged in first-hand experience with a business, organization, or other professional entity. A portfolio of assigned work shall be collected, examined and evaluated during the semester.

Prerequisite: permission of director of the appropriate graduate program and department head.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MKT 796 - Independent Study: Marketing

Credit Hours: 1-3

In consultation with coordinating professor, student selects a specific area of emphasis (related to the degree program) for a significant, in-depth study, with particular emphasis on research.

Prerequisite: MKT 670 and permission of department head.

Typically Offered: Fall, Spring

MKT 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission of department head.

Typically Offered: Demand

Mathematics

MTH 603 - Advanced Calculus I

Credit Hours: 3

Concepts of limit, continuity, differentiation, Riemann integration, sequences and series, other related topics. May be taught concurrently with MTH 503. Cannot receive credit for both MTH 503 and MTH 603.

Prerequisite: MTH 280 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MTH 604 - Advanced Calculus II

Credit Hours: 3

This is a continuation of MTH 603, including sequences and series of functions, uniform convergence, multivariate calculus, and other selected topics. May be taught concurrently with MTH 504. Cannot receive credit for both MTH 504 and MTH 604.

Prerequisite: MTH 302; and MTH 503 or MTH 603.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 605 - Theory of Functions of a Complex Variable

Credit Hours: 3

Theory of elementary functions-polynomial, trigonometric, exponential, hyperbolic, logarithmic-of a complex variable; their derivatives, integrals; power series; other selected topics. May be taught concurrently with MTH 506. Cannot receive credit for both MTH 506 and MTH 605.

Prerequisite: MTH 280 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 607 - Introduction to Partial Differential Equations

Credit Hours: 3

Introduction to linear first and second order partial differential equations, including some formal methods of finding general

solutions; the Cauchy problem for such equations, existence theorems, formal methods of finding the solution, and the role of characteristics; the classical boundary and initial value problems for the wave equation, heat equation and the boundary value problems for Laplace's equation. May be taught concurrently with MTH 507. Cannot receive credit for both MTH 507 and MTH 607.

Prerequisite: MTH 302 and MTH 303 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 611 - High School Mathematics from an Advanced Perspective

Credit Hours: 3

The focus of the course will be on relating what the mathematics students have learned in upper-level courses to what they will be teaching when they are in the high school classroom. The students' ability to reason and problem-solve mathematically and to model real-world problems in a mathematical context will be developed so they will be able to pass these abilities on to their own students. If there is a sufficient demand, an online component may be offered. May be taught concurrently with MTH 510. Cannot receive credit for both MTH 510 and MTH 611.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

MTH 631 - Introduction to Abstract Algebra

Credit Hours: 3

Theory of groups, rings, integral domains, fields, polynomials. May be taught concurrently with MTH 532. Cannot receive credit for both MTH 532 and MTH 631.

Prerequisite: MTH 302 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Fall

MTH 634 - Linear Algebra II

Credit Hours: 3

Topics include eigenvalue problems; Jordan normal form, linear functionals, bilinear forms, quadratic forms, orthogonal and unitary transformations, Markov processes, and other topics selected by the instructor. May be taught concurrently with MTH 534. Cannot receive credit for both MTH 534 and MTH 634.

Prerequisite: MTH 333.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 636 - Theory of Numbers

Credit Hours: 3

Factorization, Euler totient function, congruences, primitive roots, quadratic residues and reciprocity law. May be taught concurrently with MTH 536. Cannot receive credit for both MTH 536 and MTH 636.

Prerequisite: MTH 302 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 637 - Applied Abstract Algebra**Credit Hours:** 3

Topics typically include finite fields, block designs, error-correcting codes (nonlinear, linear, cyclic, BCH, and Reed-Solomon codes), cryptography, and computer implementation of these applications. May be taught concurrently with MTH 537. Cannot receive credit for both MTH 537 and MTH 637.

Prerequisite: MTH 333 or MTH 532 or MTH 632.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 640 - Statistical Theory I**Credit Hours:** 3

Random variables, discrete and continuous probability functions, expectation, moment-generating functions, transformation of variables. May be taught concurrently with MTH 540. Cannot receive credit for both MTH 540 and MTH 640.

Prerequisite: MTH 302.

Lecture Contact Hours: 3

Typically Offered: Fall

MTH 643 - Statistical Theory II**Credit Hours:** 3

Estimation, complete and sufficient statistics, maximum likelihood estimation, hypothesis testing, nonparametric statistics. May be taught concurrently with MTH 541. Cannot receive credit for both MTH 541 and MTH 643.

Prerequisite: MTH 540 or MTH 640 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Spring

MTH 645 - Applied Statistics**Credit Hours:** 3

A course on statistical concepts, methods and data analysis with emphasis on assumptions and effects on violating those

assumptions. Computer statistical packages will be used. Topics include statistical models, random sampling, normal distribution, estimation, confidence intervals, tests and inferences in single and two populations, and n-way analysis of variance. May be taught concurrently with MTH 545. Cannot receive credit for both MTH 545 and MTH 645.

Lecture Contact Hours: 3

Typically Offered: Fall

MTH 646 - Analysis of Variance and Design of Experiments

Credit Hours: 3

Topics include analysis of variance, estimation of variance components, randomized incomplete blocks, Latin squares, factorial nested, split-plot designs, fixed, random and mixed models. May be taught concurrently with MTH 546. Cannot receive credit for both MTH 546 and MTH 646.

Prerequisite: MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 647 - Applied Regression Analysis

Credit Hours: 3

Topics include fitting a straight line, matrix models, residuals, selecting best equation, multiple regression, and nonlinear estimation. May be taught concurrently with MTH 547. Cannot receive credit for both MTH 547 and MTH 647.

Prerequisite: MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 648 - Applied Time Series Analysis

Credit Hours: 3

This course will study the analysis of data observed at different points of time. Topics include stationary and non-stationary time series models, linear time series models, autoregressive models, autocorrelations, partial autocorrelations, moving average models, ARMA models, ARIMA models, forecasting, prediction limits, model specification, least square estimation, and seasonal time series models. Computer statistical packages will be used. May be taught concurrently with MTH 548. Cannot receive credit for both MTH 548 and MTH 648.

Prerequisite: MTH 540 or MTH 640; and MTH 345 or MTH 541 or MTH 643 or MTH 545 or MTH 645.

Lecture Contact Hours: 3

Typically Offered: Fall

MTH 653 - Stochastic Modeling

Credit Hours: 3

This course will study applications of probability and statistics from a modeling point of view. Topics include generating functions, branching processes, discrete time Markov chains, classification of states, estimation of transition probabilities, continuous time Markov Chains, Poisson processes, birth and death processes, renewal theory, queuing systems, Brownian motion, and stationary processes. Computer statistical packages will be used. May be taught concurrently with MTH 543. Cannot receive credit for both MTH 543 and MTH 653.

Prerequisite: MTH 540 or MTH 640.

Lecture Contact Hours: 3

Typically Offered: Spring

MTH 667 - Introduction to Non-Euclidean Geometry

Credit Hours: 3

Development of non-Euclidean geometries; intensive study of hyperbolic geometry. May be taught concurrently with MTH 567. Cannot receive credit for both MTH 567 and MTH 667.

Prerequisite: MTH 302 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Spring

MTH 670 - Combinatorial Analysis

Credit Hours: 3

An introduction to combinatorial analysis including enumeration methods, combinatorial identities with applications to the calculus of finite differences and difference equations. May be taught concurrently with MTH 570. Cannot receive credit for both MTH 570 and MTH 670.

Prerequisite: MTH 280 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 675 - History of Mathematics

Credit Hours: 3

Development of mathematics through the calculus; solution of problems of historical interest, problems which use historically significant techniques; problems whose solutions illuminate significant mathematical characteristics of elementary mathematics. May be taught concurrently with MTH 575. Cannot receive credit for both MTH 575 and MTH 675.

Prerequisite: MTH 302 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MTH 680 - Applied Mathematics

Credit Hours: 3

An introduction to several areas of applied mathematics including control theory, optimization, modeling of population dynamics, modeling of mathematical economics, minimax and game theory, and calculus of variations. May be taught concurrently with MTH 580. Cannot receive credit for both MTH 580 and MTH 680.

Prerequisite: MTH 303 and MTH 333.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 682 - Introductory Topology**Credit Hours:** 3

Properties of abstract metric and topological spaces; discussion of concepts of compactness and connectedness. May be taught concurrently with MTH 582. Cannot receive credit for both MTH 582 and MTH 682.

Prerequisite: MTH 302 and MTH 315.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 696 - Readings**Credit Hours:** 1-3

Periodic conferences with an advisor are required. May be repeated to a maximum of six hours. May be taught concurrently with MTH 596. Cannot receive credit for both MTH 596 and MTH 696.

Prerequisite: permission of department head.

Typically Offered: Fall, Spring

MTH 701 - Real Analysis**Credit Hours:** 3

Topics include countable and uncountable sets, convergence, Lebesgue measure on the real line, the development of the Lebesgue integral, the fundamental theorem of calculus and L_p spaces.

Prerequisite: MTH 503 or MTH 603.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 702 - Real and Abstract Analysis**Credit Hours:** 3

A study of the theory of abstract measures and integration, and an introduction to functional analysis.

Prerequisite: MTH 701.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 706 - Complex Analysis

Credit Hours: 3

Analytic functions, power series, Cauchy's theorem and its applications, residues. Selected topics from conformal mapping, analytic continuation, harmonic functions, Fourier series, and Dirichlet problems.

Prerequisite: MTH 503 or MTH 603.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 710 - Contemporary Mathematics for Secondary Teachers

Credit Hours: 3

Reports, research, and recent trends in secondary mathematics; recently developed programs in algebra and geometry.

Prerequisite: MTH 460 and MTH 333.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 721 - Theory of Ordinary Differential Equations I

Credit Hours: 3

Existence and uniqueness theorems for first order differential equations; system of linear and nonlinear differential equations; continuous dependence of solutions on initial conditions and parameters; behavior of solutions of equations with constant coefficients, study of Lyapunov's theorems on stability; introduction to boundary value problems.

Prerequisite: MTH 303; and MTH 503 or MTH 603.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 722 - Theory of Ordinary Differential Equations II

Credit Hours: 3

Theory and application of boundary value problems; periodic solutions; linear systems with periodic coefficients (Floquet theory); two dimensional (autonomous) systems limit cycles. Differential equations under Caratheodory conditions; theory of differential and integral inequalities and other selected topics, if time permits.

Prerequisite: MTH 721.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 730 - Abstract Algebra I

Credit Hours: 3

Topics from group theory will include Cayley's Theorem, finite abelian groups, Cauchy's Theorem, the Sylow Theorems, and free groups.

Prerequisite: MTH 532 or MTH 631; and MTH 333.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 732 - Abstract Algebra II

Credit Hours: 3

Topics from ring theory will include the Chinese Remainder Theorem, Euclidean domains, rings of fractions, PID's and UFD's, and polynomial rings. Topics from field theory will include splitting fields, Galois Theory, separability, normality, and finite fields.

Prerequisite: MTH 730.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 741 - Statistical Inference I

Credit Hours: 3

Formulation of statistical models, sufficiency and exponential families, methods of estimation, optimality theory. Uniformly minimum variance unbiased estimators, Fisher information, Cramer/Rao inequality, large sample theory, Bayes procedures and minimax procedures.

Prerequisite: MTH 540 or MTH 640 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 742 - Statistical Inference II

Credit Hours: 3

Confidence intervals and regions, hypothesis testing, the Neyman-Pearson framework, uniformly most powerful tests, likelihood ratio criteria, power functions, similar regions, invariant tests, distribution free tests.

Prerequisite: MTH 741.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 750 - Number and Operations for Elementary Mathematics Specialists

Credit Hours: 3

This course is designed to develop an understanding of the learning and teaching of pre-number concepts, counting and cardinality, and numbers and operations in base ten. Emphasis will be given to how children think about and learn these concepts and how they fit into the elementary school curriculum. This course cannot be used within the MS Mathematics program or the MSED Secondary Education (Mathematics) program.

Prerequisite: Two years teaching experience and permission of program coordinator; and concurrently enrollment in ELE 730.

Corequisite: ELE 730

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 752 - Rational Numbers and Proportional Thinking for Elementary Mathematics Specialists

Credit Hours: 3

This course is designed to develop an understanding of the learning and teaching of rational numbers and ratio and proportional relationships. Emphasis will be given to how children think about and learn these concepts and how they fit into the elementary school curriculum. This course cannot be used within the MS Mathematics program or the MSED Secondary Education (Mathematics) program.

Prerequisite: MTH 750 and permission of program coordinator; and concurrent enrollment in ELE 732.

Corequisite: ELE 732

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 754 - Algebraic Reasoning for Elementary Mathematics Specialist

Credit Hours: 3

This course will focus on the content and complexities of teaching and assessing algebraic reasoning in grade 1-6 settings. Course content will include examination of representation and analysis of mathematical situations and structures. Attention will be given to patterns, functions, and the transition from arithmetic to algebra. This course cannot be used within the MS Mathematics program or the MSED Secondary Education (Mathematics) program.

Prerequisite: two years teaching experience and permission of program coordinator; and concurrently enrollment in ELE 734.

Corequisite: ELE 734

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 758 - Data and Probability for Elementary Mathematics Specialist

Credit Hours: 3

This course is designed to develop understanding of probabilistic reasoning and the collection, exploration, and analysis of data. Emphasis will be given to how children think and learn about these concepts and how they fit into the elementary school curriculum. This course cannot be used within the MS Mathematics program or the MSED Secondary Education (Mathematics) program.

Prerequisite: two years teaching experience and permission of program coordinator.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 760 - Geometry and Measurement for Elementary Mathematics Specialist

Credit Hours: 3

This course is designed to develop an understanding of the teaching and learning of geometry and measurement. Emphasis will be given to how children think about and learn these concepts and how they fit into an elementary curriculum. This course cannot be used within the MS Mathematics program or the MSED Secondary Education (Mathematics) program.

Prerequisite: two years teaching experience and permission of program coordinator; and concurrently enrollment in ELE 738.

Corequisite: ELE 738

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 770 - Mathematical Practices I

Credit Hours: 3

This course is part of a three-course sequence designed to deepen the specialized mathematical content knowledge and pedagogical content knowledge of practicing secondary mathematics teachers. The focus of this course is on developing an understanding of the 8 Standards for Mathematical Practice which are SMP 1: Make sense of problems and persevere in solving them; SMP2: Reason abstractly and quantitatively; SMP 3: Construct viable arguments and critique the reasoning of others; SMP 4: Model with mathematics; SMP 5: Use appropriate tools strategically; SMP 6: Attend to precision; SMP 7: Look for and make use of structure; and MP8: Look for and express regularity in reasoning. The content-deepening aspect of the course will focus on the areas of arithmetic, algebra, and geometry.

Lecture Contact Hours: 3

Typically Offered: Summer, Demand

MTH 771 - Mathematical Practices II

Credit Hours: 3

This course is the second course in a three-course sequence to deepen the specialized mathematical content knowledge and pedagogical content knowledge of practicing secondary mathematics teachers. The focus of this course is on developing an understanding of the 8 Standards for Mathematical Practice which are SMP 1: Make sense of problems and persevere in solving them; SMP2: Reason abstractly and quantitatively; SMP 3: Construct viable arguments and critique the reasoning of others; SMP 4: Model with mathematics; SMP 5: Use appropriate tools strategically; SMP 6: Attend to precision; SMP 7: Look for and make use of structure; and MP8: Look for and express regularity in reasoning. The content-deepening aspect of the course will focus on the areas of advanced algebra, probability, and statistics.

Lecture Contact Hours: 3

Typically Offered: Summer, Demand

MTH 772 - Mathematical Practices III

Credit Hours: 3

This course is the third part of a three-course sequence designed to deepen the specialized mathematical content knowledge and pedagogical content knowledge of practicing secondary mathematics teachers. The focus of this course is on developing an understanding of the 8 Standards for Mathematical Practice which are SMP 1: Make sense of problems and persevere in solving them; SMP2: Reason abstractly and quantitatively; SMP 3: Construct viable arguments and critique the reasoning of others; SMP 4: Model with mathematics; SMP 5: Use appropriate tools strategically; SMP 6: Attend to precision; SMP 7: Look for and make use of structure; and SMP8: Look for and express regularity in reasoning. The content-deepening part of the course focuses on the different types of reasoning necessary for understanding mathematics. Types of reasoning include multiplicative, proportional, algebraic, geometric, probabilistic, statistical, and covariational.

Lecture Contact Hours: 3

Typically Offered: Summer, Demand

MTH 781 - Topology

Credit Hours: 3

Point set topology in abstract spaces.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 791 - Seminar I

Credit Hours: 3

Seminar in Mathematics.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MTH 792 - Seminar II

Credit Hours: 3

Seminar in Mathematics.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MTH 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (at least 80 hours per credit hour) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree. This course may only be counted toward the Professional Science Master (PSM) designation of the MNAS degree.

Typically Offered: Fall, Spring, Summer

MTH 797 - Topics

Credit Hours: 3

Material covered determined by the interests and backgrounds of the students. May be repeated to a maximum of six hours. 3(3-0) D

Prerequisite: permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

MTH 798 - Research

Credit Hours: 1-6

Supervised research in mathematics or mathematics education. May be repeated.

Typically Offered: Fall, Spring

MTH 799 - Projects

Credit Hours: 1-6

Independent research for thesis preparation.

Typically Offered: Fall, Spring

Music

MUS 606 - Band Administration and Materials

Credit Hours: 1-3

Practicum and experience in all aspects of the successful band program. Includes organizational strategies and review of large and small ensemble literature for marching band, stage band, jazz band, and concert band. May be taught concurrently with MUS 506. Cannot receive credit for both MUS 506 and MUS 606.

Typically Offered: Fall Even

MUS 609 - Choral Literature and Materials for Secondary Levels

Credit Hours: 2

Survey and analysis of choral music for large and small ensembles including glee clubs, mixed choruses, and choirs of all levels of performance (7-12 grade). May be taught concurrently with MUS 510. Cannot receive credit for both MUS 510 and MUS 609.

Lecture Contact Hours: 2

Typically Offered: Spring

MUS 611 - Music Education Workshop**Credit Hours:** 1-3

Variable topics related to music education instruction. Number of credit hours determined by length of workshop and depth of topic. May be repeated to a maximum of five hours. May be taught concurrently with MUS 501. Cannot receive credit for both MUS 501 and MUS 611. 1-3 Su

Typically Offered: Summer

MUS 613 - Orff in the Classroom**Credit Hours:** 3

A study of music education using the approach developed by Carl Orff. Will include creative techniques including instruments, singing, and movement. May be taught concurrently with MUS 503. Cannot receive credit for both MUS 503 and MUS 613.

Lecture Contact Hours: 3

Typically Offered: Fall

MUS 616 - Composition I**Credit Hours:** 2-4

Elementary composition of pieces in a variety of forms. Emphasis on works for piano, solo instruments, or voice. Adapted to meet the needs of the individual student. May be taught concurrently with MUS 516. Cannot receive credit for both MUS 516 and MUS 616.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 617 - Composition II**Credit Hours:** 2-4

Intermediate level composition. Emphasis on writing for small groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be taught concurrently with MUS 517. Cannot receive credit for both MUS 517 and MUS 617.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 618 - Choral Arranging

Credit Hours: 3

Techniques of arranging for small and large choral ensembles; with attention given to the practical application in a teaching situation. May be taught concurrently with MUS 518. Cannot receive credit for both MUS 518 and MUS 618.

Lecture Contact Hours: 3

Typically Offered: Fall

MUS 619 - Composition III

Credit Hours: 2-4

Composing for larger groups of instrumentalists or vocalists. Adapted to meet the needs of the individual student. May be repeated. May be taught concurrently with MUS 520. Cannot receive credit for both MUS 520 and MUS 619.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 621 - Composition IV

Credit Hours: 2-4

Advanced composition. A wide variety of mediums and styles are possible including electronic music of all types. Adapted to meet the needs of the individual student. May be repeated. May be taught concurrently with MUS 521. Cannot receive credit for both MUS 521 and MUS 621.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 622 - Keyboard Literature I

Credit Hours: 2

Keyboard works from Antiquity to the Baroque. May be taught concurrently with MUS 522. Cannot receive credit for both MUS 522 and MUS 622.

Lecture Contact Hours: 2

Typically Offered: Fall Even

MUS 623 - Keyboard Literature II

Credit Hours: 2

Keyboard works from the Classical Period to the present. May be taught concurrently with MUS 523. Cannot receive credit for both MUS 523 and MUS 623.

Lecture Contact Hours: 2

Typically Offered: Spring Odd

MUS 624 - Song and Opera Literature

Credit Hours: 2

Italian arias, German Lieder; representative songs by French, English, and American composers; standard operatic repertoire in relation to the composer's style and the period of theater and music history from which they emanate. May be taught concurrently with MUS 524. Cannot receive credit for both MUS 524 and MUS 624.

Lecture Contact Hours: 2

Typically Offered: Fall Even

MUS 626 - Advanced Arranging

Credit Hours: 3

Independent study or three hour seminar per week. Techniques of arranging for various choral or instrumental groups, suited to the need of the individual student. Variable content course. May be repeated to a maximum of six hours when topic varies. May be taught concurrently with MUS 526. Cannot receive credit for both MUS 526 and MUS 626.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

MUS 629 - Introduction to Commercial Music

Credit Hours: 3

A comprehensive survey of various aspects of music associated with the entertainment industry. Students will be exposed to a wide variety of topics including song and advertising jingle writing, scoring for film and video, negotiating contracts, and dealing with music publishers. May be taught concurrently with MUS 529. Cannot receive credit for both MUS 529 and MUS 629.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

MUS 630 - Vocal Pedagogy and Materials

Credit Hours: 3

Understanding the basic principles of voice production and their application to the training of singers. A comparative study of different pedagogical approaches to voice training. Including a survey of materials needed in successful programs of choral and vocal education in secondary schools for all levels of performance. May be taught concurrently with MUS 530. Cannot receive credit for both MUS 530 and MUS 630.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

MUS 641 - Keyboard Harmony

Credit Hours: 2

Development of keyboard harmony skills through study and practice of figured bass, score reading, transposition, chord structures, harmonic progressions, and improvisation. May be taught concurrently with MUS 541. Cannot receive credit for both MUS 541 and MUS 641.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Spring Even

MUS 649 - String (Instrument)

Credit Hours: 1-2

Applied instruction available in violin, viola, violoncello, and bass viol. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 651 - Piano

Credit Hours: 1-2

Applied instruction in piano. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 652 - Organ

Credit Hours: 1-2

Applied instruction in organ. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 653 - Voice

Credit Hours: 1-2

Applied instruction in voice. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 655 - Woodwind

Credit Hours: 1-2

Applied instruction in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 656 - Brass

Credit Hours: 1-2

Applied instruction in trumpet, horn, trombone, euphonium and tuba. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 657 - Percussion

Credit Hours: 1-2

Applied instruction on percussion instruments. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 658 - Survey of Pedagogical Methods

Credit Hours: 2

A study of methods of teaching applied music. May be taught concurrently with MUS 538. Cannot receive credit for both MUS 538 and MUS 658.

Lecture Contact Hours: 2

Typically Offered: Demand

MUS 659 - String Pedagogy and Instrumental Literature and Materials for Elementary and Secondary Levels

Credit Hours: 3

Students will explore all aspects of orchestra and string programs for elementary and secondary education. Literature appropriate for beginning and advanced levels in school string programs will be addressed. May be taught concurrently with MUS 539. Cannot receive credit for both MUS 539 and MUS 659.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

MUS 660 - Carillon

Credit Hours: 1-2

Applied instruction in carillon. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 661 - Men's Chorus

Credit Hours: 1

A choral ensemble of men's voices that studies and performs music of various historical periods and genres both on and off campus. The Men's Chorus collaborates with other vocal and instrumental ensembles in the Music Department. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 663 - Women's Chorus

Credit Hours: 1

A choral ensemble of women's voices that studies and performs music of various historical periods and genres both on and off campus. The Women's Chorus collaborates with other vocal and instrumental ensembles in the Music Department. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music. 1(0-2) F,S

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 670 - Instrumental Conducting Seminar

Credit Hours: 1-3

A study of conducting techniques and problems in rehearsal and performance. Baton technique, repertoire development and practicum of conducting in rehearsals (may include a public performance). May be taught concurrently with MUS 580. Cannot receive credit for both MUS 580 and MUS 670. May be repeated for variable credit hours to a maximum of 12 hours.

Typically Offered: Fall, Spring

MUS 671 - Choral Conducting Seminar

Credit Hours: 1-3

A study of conducting techniques and problems in rehearsal and performance. Baton technique, repertoire development, and practicum of conducting in rehearsals (may include a public performance). May be taught concurrently with MUS 581. Cannot

receive credit for both MUS 581 and MUS 671. May be repeated for variable credit hours to a maximum of 12 hours.

Typically Offered: Fall

MUS 674 - Jazz Ensemble

Credit Hours: 1

A Laboratory course in instrumentation, materials, arranging, and organization of the jazz ensemble. May be repeated for credit.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 675 - Band

Credit Hours: 1

Band provides opportunities for performance with University Wind Bands, i.e. Wind Ensemble, Wind Symphony, Concert Band. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 678 - University/Community Band

Credit Hours: 1

Traditional style concert band which provides performance opportunities for musicians from the university and the community at large. At least one concert is presented each semester. May be repeated for credit.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 682 - Piano Ensemble

Credit Hours: 1

The student will strengthen ensemble and rehearsal techniques through the study and performance of piano four-hand and duo literature. May be repeated for credit.

Prerequisite: permission of instructor.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 683 - Music of the Renaissance

Credit Hours: 3

A comprehensive study of Western music from the Franco-Netherlands composers to Monteverdi (c. 1450 to 1600). May be taught concurrently with MUS 543. Cannot receive credit for both MUS 543 and MUS 683.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 684 - Music of the Baroque Era**Credit Hours:** 3

A comprehensive study of Western music from monody to J.S. Bach and Handel (c. 1600 to 1750). May be taught concurrently with MUS 544. Cannot receive credit for both MUS 544 and MUS 684.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 685 - Music of the Classical Era**Credit Hours:** 3

A comprehensive study of Western music from pre-classicism to Beethoven (c. 1750 to 1810). May be taught concurrently with MUS 545. Cannot receive credit for both MUS 545 and MUS 685.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 686 - Music of the Romantic Era**Credit Hours:** 3

A comprehensive study of Western music from Beethoven to the post-romantic composers (c. 1800 to 1900). May be taught concurrently with MUS 546. Cannot receive credit for both MUS 546 and MUS 686.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 687 - Music Since 1900**Credit Hours:** 3

A comprehensive study of Western music from 1900 to the present. May be taught concurrently with MUS 547. Cannot receive credit for both MUS 547 and MUS 687.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 688 - Choral Literature

Credit Hours: 2

Choral literature from the Renaissance through the 20th Century. May be taught concurrently with MUS 548. Cannot receive credit for both MUS 548 and MUS 688.

Lecture Contact Hours: 2

Typically Offered: Demand

MUS 689 - Special Topics in Music

Credit Hours: 1-3

Topic of interest determined by student and professor. Variable content course. May be repeated, as topics change, to a maximum of six hours. May be taught concurrently with MUS 599. Cannot receive credit for both MUS 599 and MUS 689.

Prerequisite: permission of instructor.

Typically Offered: Demand

MUS 700 - Introduction to Graduate Study in Music

Credit Hours: 3

General introduction to graduate curriculum; planning the program; formal writing style; sources used in research; study of methods in research. Required of all degree candidates.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

MUS 701 - Music Education Curriculum

Credit Hours: 3

An examination of trends in elementary, middle, and secondary music education; evaluation of selected materials and techniques; and special projects in planning for change in music education curriculum.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 702 - General Music Education

Credit Hours: 3

Study of problems in planning a music program to encourage lifelong participation in music; for guiding learning through creating, performing and responding; music integration with other subject areas; critical and creative thinking, and use of instructional media for providing music learning experiences.

Lecture Contact Hours: 3

Typically Offered: Fall

MUS 706 - Ethical Decision-Making in Music Education

Credit Hours: 3

Exploration of issues, problems and possibilities in music education through an applied ethics perspective.

Lecture Contact Hours: 3

Typically Offered: Fall Even

MUS 707 - Psychology of Music

Credit Hours: 3

Adapted to the view of the music educator. Emphasis is placed upon the physics of sound, psychology of performances and teaching, and the principles of listening.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 708 - Contemporary Music Education

Credit Hours: 3

A study of current trends and contemporary issues relevant to education and/or music education, as identified from various sources, and what impact they may or may not have on music education.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 715 - Advanced Composition

Credit Hours: 3

Private compositional study for graduate students. Variable content course. May be repeated to a maximum of nine hours when topic varies.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 720 - Directed Study in Music Education

Credit Hours: 1-3

Individual study and research on projects approved by Music Education faculty; individual conferences with assigned faculty members; oral report, and a document at conclusion of semester. May be repeated to a maximum of three hours.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 725 - History and Philosophy of Music Education

Credit Hours: 3

History of educational philosophies and objectives.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 727 - Seminar: Music Theory

Credit Hours: 3

A study of various aspects of music theory, including analysis and pedagogy, researched from primary and secondary sources from the medieval period through the present. May be repeated to a maximum of six hours when topic varies.

Lecture Contact Hours: 3

Typically Offered: Fall Even

MUS 728 - Pedagogy of Music Theory

Credit Hours: 3

Techniques of teaching harmony and ear training as well as other theoretical aspects of music to high school and college music students.

Lecture Contact Hours: 3

Typically Offered: Summer

MUS 738 - Survey of Pre-College Repertoire

Credit Hours: 2

An examination of appropriate repertoire from the Baroque, Classical, Romantic, and 20th Century style periods for beginner, intermediate, and advanced pre-college students.

Prerequisite: MUS 538 or MUS 658.

Lecture Contact Hours: 2

Typically Offered: Spring, Summer

MUS 739 - Pedagogy Practicum I

Credit Hours: 3

A course consisting of three components: class meetings for the discussion of teaching techniques, observation of the teaching of experienced teachers, supervised teaching.

Prerequisite: MUS 738.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

MUS 740 - Pedagogy Practicum II

Credit Hours: 3

Private teaching of a prescribed number of pre-college students of various levels of advancement under guidance of pedagogy instructor. Pedagogy students must present assigned pre-college students in an end of semester recital.

Prerequisite: MUS 739.

Lab Contact Hours: 6

Typically Offered: Spring

MUS 744 - Directed Study in Music Theory

Credit Hours: 1-3

Individual study on approved projects; individual conferences with assigned faculty member. May be repeated to a maximum of three hours.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 745 - Directed Study in Music History and Literature

Credit Hours: 1-3

Advanced study in special topics of music history and literature. Variable content course. May be repeated to a maximum of three hours when topic varies.

Prerequisite: permission of instructor.

Typically Offered: Demand

MUS 746 - Seminar: Symphonic Literature

Credit Hours: 3

A survey of the repertoire for orchestras of varying sizes and ability levels. Variable content course.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 747 - Seminar: Wind Literature

Credit Hours: 3

A survey of the repertoire for wind groups of various sizes and ability levels. Variable content course.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 748 - Seminar: Choral Literature

Credit Hours: 3

A survey of the repertoire for choral groups of various sizes and ability levels. Variable content course. May be repeated to a maximum of six hours when topic varies.

Lecture Contact Hours: 3

Typically Offered: Spring

MUS 749 - String (Instrument)

Credit Hours: 1-2

Applied instruction available in violin, viola, violoncello, and bass viola. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 751 - Piano

Credit Hours: 1-2

Applied instruction in piano. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 752 - Organ

Credit Hours: 1-2

Applied instruction in organ. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 753 - Voice

Credit Hours: 1-2

Applied instruction in voice. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 755 - Woodwind (Instrument)

Credit Hours: 1-2

Applied instruction available in flute, oboe, clarinet, bassoon, and saxophone. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 756 - Brass

Credit Hours: 1-2

Applied instruction available in trumpet, French horn, trombone, euphonium and tuba. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 757 - Percussion

Credit Hours: 1-2

Applied instruction on percussion instruments. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 760 - Carillon

Credit Hours: 1-2

Applied instruction in carillon. May be repeated for credit.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

MUS 761 - Men's chorus

Credit Hours: 1

A choral ensemble of men's voices that studies and performs music of various historical periods and genres both on and off campus. The Men's Chorus collaborates with other vocal and instrumental ensembles in the Music Department. Open to all

University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 762 - Choral Union

Credit Hours: 1

Chorus Union, a mixed choir of students and community members, rehearses one evening per week and performs concerts throughout the year. Choral Union collaborates with other choral ensembles during the academic year and performs a variety of choral literature. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music. Open to all students and community members by audition.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 763 - Women's Chorus

Credit Hours: 1

A choral ensemble of women's voices that studies and performs music of various historical periods and genres both on and off campus. The Women's Chorus collaborates with other vocal and instrumental ensembles in the Music Department. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 768 - Chorale

Credit Hours: 1

Chorale is a chorus of mixed men's and women's voices that studies and performs advanced choral repertoire both on and off campus. The Chorale will collaborate with other vocal and instrumental ensembles during the academic year. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree.

Lab Contact Hours: 4

Typically Offered: Fall, Spring

MUS 772 - Small Ensembles

Credit Hours: 1

Ensembles may be arranged each semester in the fields of piano, voice, strings, wind instruments, and percussion to meet the needs of participating students and the department. May be repeated for credit.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 773 - Chamber Orchestra

Credit Hours: 1

Small instrumental ensemble, consisting primarily of strings and varying combinations of wind, brass, percussion, and keyboard instruments, devoted to the study and performance of music written for that medium. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 1

Typically Offered: Fall, Spring

MUS 774 - Jazz Ensemble

Credit Hours: 1

A laboratory course in instrumentation, materials, arranging, and organization of the jazz ensemble. May be repeated for credit.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 775 - Band

Credit Hours: 1

Band provides opportunities for performance with University Wind Bands, i.e. Wind Ensemble, Wind Symphony, Concert Band. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree program in music.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 776 - University Symphony

Credit Hours: 1

Symphony performs and reads music from standard orchestral literature and accompanies opera productions. Open to all university orchestral players by audition. May be repeated for credit.

Lab Contact Hours: 4

Typically Offered: Fall, Spring

MUS 778 - University/Community Band

Credit Hours: 1

Traditional-style concert band which provides performance opportunities for musicians from the university and the community at large. At least one concert is presented each semester. May be repeated for credit.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 781 - Score Reading and Analysis**Credit Hours:** 3

Analysis of scores and its application to conducting. Development of skills in reading clefs and transpositions. Variable content course. May be repeated to a maximum of six hours when topic varies.

Lecture Contact Hours: 3

Typically Offered: Demand

MUS 790 - Research Project**Credit Hours:** 2

Research in the student's major area of concentration, culminating in a written document. Topic to be chosen through consultation with the student's major advisor. May be repeated for credit.

Lecture Contact Hours: 2

Typically Offered: Demand

MUS 792 - Accompanying**Credit Hours:** 1

Development of skills in accompanying for pianists.

Prerequisite: permission of instructor.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 793 - Opera Workshop**Credit Hours:** 1

Preparation and production of opera as it pertains to singing actors and ensembles. Open to all University students by audition. May be repeated for credit. Only 8 hours of ensembles can be counted toward a degree.

Prerequisite: permission of instructor.

Lab Contact Hours: 2

Typically Offered: Fall, Spring

MUS 797 - Directed Study in Pedagogy

Credit Hours: 1-3

Advanced study in special topics in pedagogy. Variable content course. May be repeated to a maximum of three hours when topic varies.

Typically Offered: Demand

MUS 798 - Graduate Recital

Credit Hours: 2

Fulfills half of the final project requirement for concentrations in performance, pedagogy, and conducting.

Prerequisite: permission of instructor.

Lab Contact Hours: 4

Typically Offered: Fall, Spring

MUS 799 - Thesis

Credit Hours: 1-6

Selection of thesis topic, research or compositional techniques to be employed, compilation of bibliography, guidance of compilation and interpretation of data; organization and writing of study or writing of composition and description including program notes.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

Nursing

NUR 631 - Gerontological Health Care

Credit Hours: 3

This course will address health issues of older adults, including the normal biological and psychosocial aging process, common health problems, and access to and use of health services. It includes international models of aging and geriatric care. The focus is on healthy aging and adaptation to chronic health conditions. This course has a community experience component. May be taught concurrently with NUR 501. Cannot receive credit for both NUR 501 and NUR 631.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 632 - Rural Health

Credit Hours: 3

This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations, and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Identical with SWK 602. Cannot receive credit for both NUR 632 and SWK 602. May be taught concurrently with NUR 502. Cannot receive credit for both NUR 502 and NUS 632.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 633 - Transcultural Healthcare**Credit Hours:** 3

Exploration of health beliefs, values, and practices of other cultures. This is a short-term Education Abroad course. May be taught concurrently with NUR 503. Cannot receive credit for both NUR 503 and NUR 633.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

NUR 635 - Healthcare Informatics**Credit Hours:** 3

Integration of health, computer and information sciences in managing information to support healthcare and research. Development of skill in managing information and using information systems relevant to health care. May be taught concurrently with NUR 515 and NRS 515. Cannot receive credit for NUR 515 and NRS 515 and NUR 635.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 695 - Independent Study in Nursing**Credit Hours:** 1-6

Special topics for individual students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated to a maximum of six hours as topics change. May be taught concurrently with NUR 596. Cannot receive credit for both NUR 596 and NUR 695.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring, Summer

NUR 696 - Special Topics in Nursing**Credit Hours:** 1-3

Special topics for groups of students may be offered as specific topics of interest or as needs arise which are not covered by courses or content in the program. May be repeated to a maximum of six hours as topics change. May be taught concurrently with

NUR 597. Cannot receive credit for both NUR 597 and NUR 696.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 Lab Contact Hours: 3

Typically Offered: Demand

NUR 701 - Nursing Science

Credit Hours: 2

This course is designed to address how nursing science has evolved and the state of the art of nursing science. Emphasis will be placed on analysis and critique of existing nursing models and theories.

Prerequisite: admission to a graduate program in nursing or permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

NUR 703 - Population Health: A Local to Global Perspective

Credit Hours: 3

This course fosters development of advanced knowledge of health systems and social determinants of population health from a local, state, national, and global perspective. The phenomena of cultural competence, health disparities, health promotion, community health assessment, and a global health outlook will be explored.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 704 - Population Health Practicum

Credit Hours: 1-2

These clinical experiences will include 48-96 hours of immersion into a vulnerable, underserved or culturally diverse population.

Prerequisite: admission to a graduate program in nursing or permission.

Typically Offered: Fall, Spring, Summer

NUR 705 - Population Health Management I

Credit Hours: 3

This course builds on foundational knowledge of population health concepts, models, skills, roles, and technology used to identify the health care needs of vulnerable populations experiencing health disparities. An emphasis is placed on data science, risk management, and program planning and development of interventions across the continuum of care.

Prerequisite: NUR 703 and NUR 704 and admission to a graduate program in nursing or permission of instructor.

Lecture Contact Hours: 2 Lab Contact Hours: 3

Typically Offered: Summer

NUR 706 - Population Health Management II

Credit Hours: 4

This course builds on knowledge and skills in population health used to deliver, manage, and evaluate health care across the care continuum. Achieving sustainable solutions to health disparities and evaluation of outcomes in terms of quality, safety, effectiveness, satisfaction, and fiscal considerations are emphasized. A focus on disease prevention and management using health informatics, data science, and models of collaborative health care delivery is provided.

Prerequisite: NUR 703 and NUR 704 and NUR 705 and admission to a graduate program in nursing.

Lecture Contact Hours: 2 **Lab Contact Hours:** 6

Typically Offered: Fall

NUR 710 - Clinical Epidemiology

Credit Hours: 3

This course is an introduction to the epidemiological methods and procedures utilized in a clinical environment. This course will include the study of infectious and non-infectious disease epidemiology. Students will learn how to use basic epidemiological concepts and methods in the clinical setting in order to make better decisions regarding evidence-based medicine and quality of care. Basic statistical measures used in the analysis of clinical and epidemiological evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Additional topics include accessing and evaluating sources of data, qualitative and quantitative systematic reviews of literature-based evidence, and meta-analyses. Identical with PBH 710 . Cannot receive credit for both NUR 710 and PBH 710 .

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 711 - Advanced Roles and Leadership in Nursing

Credit Hours: 2

This course is designed to introduce advanced leadership roles and competencies. Content will include theory, the conceptual basis of advanced nursing practice, leadership, and competencies applicable to advanced nursing roles. Ethical and professional issues in advanced practice specialties will be incorporated.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

NUR 729 - Acute Care Treatment Modalities I

Credit Hours: 1

This course will introduce a variety of diagnostic and treatment modalities common to the acute care setting to be utilized in

practice as an Adult-Gerontology Acute Care Nurse Practitioner (AGACNP). The course will require an on-campus residency where hands-on techniques will be used to teach AGACNP students common procedures used in the acute care setting as well as faculty observed head to toe assessment which must be completed prior to matriculation into clinical courses.

Prerequisite: admission to a graduate program in nursing or permission of instructor.

Typically Offered: Fall, Summer

NUR 730 - Family Practice I

Credit Hours: 6

This course provides an evidence-based framework to diagnose and manage actual or potential episodic health conditions across the lifespan utilizing didactic and clinical experiences. Health promotion as it relates to the care of diverse individuals across the lifespan will be explored. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 **Lab Contact Hours:** 6

Typically Offered: Fall

NUR 731 - Psychiatric-Mental Health Practice I

Credit Hours: 6

This course provides an evidence-based framework to diagnose and manage actual or potential psychiatric mental health conditions across the lifespan utilizing didactic and clinical experiences. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 **Lab Contact Hours:** 6

Typically Offered: Fall, Spring, Summer

NUR 733 - Advanced Physical Assessment and Health Promotion

Credit Hours: 2

This course examines advanced critical thinking, communication and diagnostic skills needed to obtain comprehensive and focused history and physical exams, analyze assessment data, and focus on health prevention and promotion.

Prerequisite: admission to a graduate program in nursing or permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

NUR 734 - Advanced Physical Assessment and Clinical Reasoning

Credit Hours: 6

This course provides an evidence-based framework to apply effective communication, advanced assessment, and generate differential diagnosis for diverse individuals across the lifespan. Health promotion, and patient education will be incorporated. Includes clinical experiences of not less than 144 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 9

Typically Offered: Fall, Spring

NUR 735 - Acute Care Treatment Modalities II

Credit Hours: 1

This course will build on previous treatment modalities and clinical courses. An online case study and discussion format will be used to guide students to apply the acute care knowledge gained in previous courses as they develop their role as Adult-Gerontology Acute Care Nurse Practitioners. This course should be completed prior to the final clinical semester.

Prerequisite: NUR 729 and NUR 745 and NUR 755 and permission.

Typically Offered: Fall, Spring, Summer

NUR 740 - Advanced Pathophysiology

Credit Hours: 3

Exploration of pathophysiology with focus on health care problems relevant to advanced nursing.

Prerequisite: admission to a graduate nursing program or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 745 - Acute Care I

Credit Hours: 6

This course will introduce practicing master's and doctoral prepared nurses to the role of Adult-Gerontology Acute Care Nurse Practitioner. This is the first course designed to prepare the student to assess, diagnose, and manage the complex and acutely ill adult and geriatric patient. The course will build on previous theory, technology, and pharmacological knowledge and incorporate advanced physical assessment, diagnostics, and evidence-based guidelines for the care of the complex and acutely ill adult and geriatric patient. Teaching methods including both didactic and clinical components. The clinical component includes no less than 168 direct-care hours.

Prerequisite: NUR 729 or concurrent enrollment and permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 9

Typically Offered: Fall

NUR 750 - Family Practice II

Credit Hours: 6

This course provides an evidence-based framework to diagnose and manage actual or potential chronic health conditions across the lifespan utilizing didactic and clinical experiences. Emphasis will be placed on critical evaluation of assessment data, diagnostic process, management, and patient education. Application of self-care management, care coordination, and health promotion as it relates to care of the diverse individual across the lifespan will be explored. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 **Lab Contact Hours:** 6

Typically Offered: Fall, Spring

NUR 751 - Psychiatric-Mental Health Practice II

Credit Hours: 6

This course provides an evidence-based framework to diagnose and manage actual or potential psychiatric mental health conditions across the lifespan utilizing didactic and clinical experiences. Emphasis will be placed on critical evaluation of assessment data, diagnostic process, management, and patient education. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 **Lab Contact Hours:** 6

Typically Offered: Fall, Spring

NUR 755 - Acute Care II

Credit Hours: 6

This course will further develop concepts necessary for practice as an Adult-Gerontology Acute Care Nurse Practitioner acquired in Acute Care I. The course will continue to build on previous theory, technology, and pharmacological knowledge and incorporate advanced physical assessment, diagnostics, and evidence-based guidelines for the care of the complex and acutely ill adult and geriatric patient. Teaching methods include both didactic and clinical components. The clinical component includes no less than 168 direct-care hours.

Prerequisite: NUR 729 and NUR 745 and permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 9

Typically Offered: Spring

NUR 761 - Advanced Pharmacotherapeutics and Prescriptive Practices for the Advanced Practice Nurse

Credit Hours: 4

This course provides an in-depth analysis of clinical pharmacotherapeutics for advanced practice nurses. Including investigation of pharmacokinetics, pharmacodynamics, rational prescribing, and evaluation of drug effect on disease and patient. Ethical, regulatory, and diversity in prescribing will be explored.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4

Typically Offered: Fall, Spring

NUR 762 - Prescriptive Practices for the Advanced Practice Nurse

Credit Hours: 1

This course is taken in conjunction with NUR 761 Section 1, to further investigate pharmacokinetics and pharmacodynamics for the advanced practice nurse. Emphasis will be placed on drug management and rationale prescribing including regulatory considerations.

Prerequisite: admission to the graduate program in Family Nurse Practitioner or permission of instructor; and concurrently enrollment in NUR 761, section 1.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring

NUR 763 - Advanced Pharmacology

Credit Hours: 3

This course provides an in-depth analysis of pharmacotherapeutics for the advanced nurse.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 765 - Applications of Advanced Pathophysiology

Credit Hours: 3

This course is an overview of advanced pathophysiology concepts as related to diseases in diverse populations encountered in advanced nursing roles. Evidenced-based practice and clinical reasoning will be synthesized from pathophysiology, nursing, medicine, and other applicable arts and sciences.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 770 - Family Practice III

Credit Hours: 6

This course provides an evidence-based framework to analyze complex health conditions to diagnose and manage the care individuals across the lifespan. Emphasis will be placed on critical evaluation of the diagnostic process and management to synthesize outcomes of care. Health promotion as it relates to care of diverse individuals across the lifespan will be explored. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 **Lab Contact Hours:** 6

Typically Offered: Fall, Spring

NUR 771 - Psychiatric-Mental Health Practice III

Credit Hours: 6

This course provides an evidence-based framework to analyze complex psychiatric mental health conditions to diagnose and manage the care individuals across the lifespan. Emphasis will be placed on critical evaluation of the diagnostic process and management to synthesize outcomes of care. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 4 Lab Contact Hours: 6

Typically Offered: Fall, Spring

NUR 772 - Research Methods for the Health Professions

Credit Hours: 3

This course serves as an introduction to the evaluation and application of research methodology in the context of health and human services. The specific aim of this course is to help students grasp the relations between the research question, design, and method(s), the measurement of constructs, and the data/theoretical interpretations. The material will be presented in a manner to strike a balance between fundamental, conceptual, technical, and methodological activity to scientific and clinical research. Identical with ATC 732, CSD 702, PBH 760, and RCH 730. Can only receive credit for one of following: ATC 732, CSD 702, NUR 772, PBH 760, or RCH 730.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 775 - Acute Care III

Credit Hours: 6

This course will further develop concepts necessary for practice as an Adult-Gerontology Acute Care Nurse Practitioner and will build on knowledge acquired in Acute Care I and II to guide the student in the developing the Adult-Gerontology Acute Care Nurse Practitioner role. The course will continue to build on previous theory, technology, and pharmacological knowledge and incorporate advanced physical assessment, diagnostics, and evidence-based guidelines for the care of the complex and acutely ill adult and geriatric patient. Teaching methods include both didactic and clinical components. The clinical component includes no less than 224 direct-care hours.

Prerequisite: NUR 729 and NUR 735 and NUR 745 and NUR 755 and permission.

Lecture Contact Hours: 2 Lab Contact Hours: 12

Typically Offered: Fall

NUR 780 - Teaching/Learning for Health Care Educators

Credit Hours: 3

This course is designed to examine works of major learning theorists and investigate research related to teaching methods and learning. Identification of teaching/learning strategies used in health care education and practice.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 781 - Nursing Education Practicum

Credit Hours: 3

This course provides a clinical experience in a nurse educator role in an entry level nursing education program. Application of educational and clinical practice theories and principles in a clinical teaching setting will be explored. This course has no less than 144 clinical hours.

Prerequisite: NUR 780; and admission to a graduate program in nursing or permission.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 782 - Program Development and Evaluation in Nursing Education

Credit Hours: 3

This course explores components, processes, and skills involved in the analysis, development, implementation, and evaluation of academic and clinical settings. Accreditation standards will be explored.

Prerequisite: NUR 780; and admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 783 - Nursing Education Practicum II

Credit Hours: 2

This course provides clinical experience in a nurse educator role in a healthcare or community setting with emphasis on application of educational theories and principles. Includes clinical experiences of not less than 96 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

NUR 784 - Technology in Health Care Education

Credit Hours: 3

This course explores various technology-based health education resources utilized to support the teaching and learning process. Strategies to assess learners, to develop learner evaluation plans, ethical considerations, and how to measure learning outcomes will be discussed.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

NUR 785 - Population Health Management Education Practicum

Credit Hours: 3

This clinical course applies knowledge of population health concepts, models, skills, and roles to the health care needs of vulnerable populations. Aspects of program development, implementation, and evaluation will be emphasized.

Prerequisite: NUR 703 and NUR 704 and NUR 705; and NUR 706 or concurrent enrollment in NUR 706; and admission to a graduate program in nursing.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 787 - Advanced Nursing Clinical Management**Credit Hours: 2-4**

This course provides clinical experience in advanced nursing roles to develop in-depth knowledge and expertise in a healthcare or community setting. This course has no less than 96 clinical hours. This course may be taken as variable credit, may be taken as 2-4 credit hours.

Prerequisite: NUR 780 and NUR 782; and admission to a graduate nursing program or permission.

Typically Offered: Fall, Spring, Summer

NUR 789 - Organizational Leadership**Credit Hours: 3**

This course is designed to empower nursing professionals with the knowledge to lead healthcare organizations. Incorporation of national regulatory and safety resources, integration of evidence-based strategies, effective collaboration, and analysis of internal and external processes that influence health care will be explored.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 790 - Advanced Practice Practicum**Credit Hours: 6**

This course explores regulatory, legal, financial, and advanced nursing principles to demonstrate leadership in the role of the nurse practitioner as it relates to inter-professionalism within the health care team. Readiness for practice will be assessed by demonstration of competency and clinical judgment. Includes clinical experiences of not less than 240 hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 1 Lab Contact Hours: 15

Typically Offered: Fall, Spring, Summer

NUR 791 - Practice Leadership Practicum I**Credit Hours: 3**

This course is a practicum experience applying principles and methods of leadership, management, and evaluation to facilitate patient care operations in various settings in which students work closely with a leader in a variety of health care settings. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 792 - Practice Leadership Practicum II

Credit Hours: 3

This course is a practicum experience analyzing principles and methods of leadership, management, and evaluation to facilitate patient care operations in various settings in which students work closely with a leader in a variety of health care settings. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 793 - Practice Leadership Clinical Immersion

Credit Hours: 3

This course explores intensive preceptor guided clinical experience that synthesizes previous theory and clinical coursework and refines knowledge and skills required to transition to an autonomous advanced nursing practice role. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 797 - Capstone Project

Credit Hours: 1-3

This course requires active participation in the development, implementation, and evaluation of advanced nursing role capstone project. Variable credit, may be taken 1-3 credit hours. Must be repeated for a minimum of three hours.

Prerequisite: NUR 772; and admission to a graduate program in nursing or permission.

Typically Offered: Fall, Spring, Summer

NUR 798 - Research

Credit Hours: 1-6

Application of the research process in the supervised study of a selected problem. May be repeated to a maximum of six hours

Prerequisite: permission of advisor.

Typically Offered: Fall, Spring

NUR 800 - DNP Leadership I: Concepts for Evidence-Based Practice

Credit Hours: 4

This course explores and applies foundational concepts and theories for the development of the DNP nurse leader and the DNP Change Project. Concepts include transforming healthcare through evidence-based practice, quality improvement, leadership in healthcare systems, project planning, evaluation of evidence, and consideration of disparities in health and healthcare from a population focus. This course has no less than 48 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Fall, Spring, Summer

NUR 802 - Emerging Science and Methods of Advanced Practice

Credit Hours: 3

In this course, concepts, theories, and philosophical perspectives relevant to nursing science, research, and advanced nursing practice will be examined. Emphasis will be placed on exploring, analyzing, and applying concepts, theories, philosophies, and traditional and translational research methods, to the discipline of nursing, and to the student's area of research. The use of systematic reviews, meta-analysis, and meta-synthesis in the student's DNP project and in nursing practice will be explored.

Prerequisite: admission to a graduate program in nursing and completion of a graduate level nursing theory course and a graduate level nursing research course, or permission.

Lecture Contact Hours: 3

Typically Offered: Fall

NUR 810 - Finance Management and Entrepreneurship for Advanced Nursing Roles

Credit Hours: 2

This course focuses on the understanding and analysis of concepts and issues related to finance, budgeting, resource management, funding, reimbursement, cost-benefit analysis, and entrepreneurship as applicable to advanced nursing roles within the changing health care environment.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

NUR 824 - Health Policy to Improve Health Disparities

Credit Hours: 3

This course will explore the advanced roles and skills needed in health policy advocacy, analysis, development, implementation, and evaluation. Advanced advocacy skills and tools for addressing health care cost, quality, and access issues; as well as social justice, vulnerable populations, and health disparities, will be explored. Emphasis will be placed on understanding the

complexities of local, national, and global health issues and policy initiatives necessary to improve health outcomes.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 830 - DNP Leadership II: Impacting Disparities in Health and Healthcare

Credit Hours: 6

Building on NUR 800, the focus of this course includes the concepts of leadership, change, problem solving, ethical decision making theories and their application to project planning. The concepts of translational research, quality improvement, and budgeting, within a health and healthcare disparities framework will be addressed and applied. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Fall, Spring

NUR 840 - Technology for Transforming Nursing and Healthcare Systems

Credit Hours: 2

This course is designed to provide an overview of nursing and healthcare information technology applicable to advanced nursing roles. Information system concepts and technologies that can be used to improve quality, enhance patient safety, and transform the health of individuals, families, communities and populations will be explored.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

NUR 860 - DNP Leadership III: Transforming Systems

Credit Hours: 6

This course builds on previous DNP Leadership courses with an emphasis on advanced leadership roles for transforming health and healthcare disparities at the systems level. Concepts addressed include implementing a strategic plan and evaluating plan outcomes; resource management; leading and managing change and innovation in diverse healthcare environments; healthcare economics; influencing healthcare policy, and organizational culture and behavior; program/impact evaluation. Advanced leadership roles, such as consultant, entrepreneur, grant writer, mentor, advanced advocate, and change agent will be included. During this course an evidence-based DNP project to transform practice within a healthcare system will be implemented and evaluated. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Fall, Spring

NUR 880 - Leadership and Innovation in Nursing

Credit Hours: 3

The course focuses on the use of evidence-based practice, innovation, organizational collaboration, and leadership in health care.

Prerequisite: admission to a graduate program in nursing or permission.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

NUR 896 - Independent Study in Community and Population Health Leadership**Credit Hours:** 1-3

This course is for students who need additional clinical learning experiences to meet the required clinical contact hours to achieve DNP competencies. Clinical experiences via independent study will focus on specific topics of interest in community and population health leadership. This course includes clinical experience of 48 contact hours per credit hour. Clinical hours are counted towards the post-baccalaureate clinical hours required for DNP programs. May be repeated to a maximum of six hours.

Prerequisite: admission to a graduate program in nursing or permission.

Typically Offered: Fall, Spring, Summer

NUR 993 - Transforming Practice**Credit Hours:** 3

During this course, the DNP student will utilize and synthesize project findings with current evidence to develop scholarly products of publications and presentations for dissemination. This course has no less than 144 clinical hours.

Prerequisite: admission to a graduate program in nursing or permission.

Lab Contact Hours: 9

Typically Offered: Fall, Spring, Summer

NUR 998 - Clinical Development**Credit Hours:** 1-2

This course is continued clinical application for the students requiring additional clinical time. This course cannot be repeated. This course has no less than 48 clinical hours. This course can be taken for either 1 or 2 credit hours.

Prerequisite: admission to a graduate program in nursing or permission.

Typically Offered: Demand

NUR 999 - Active in DNP Project**Credit Hours:** 1-3

This course is continued application of translational research process in the supervised project of a selected evidence-based practice problem. This course is for students who require additional time to complete the DNP project. May be repeated to a maximum of six hours. Does not count toward degree requirements.

Prerequisite: permission of advisor.

Typically Offered: Fall, Spring, Summer

Occupational Therapy

OTE 610 - Foundations and Theory in Occupational Therapy

Credit Hours: 4

This course establishes a foundation for how theory, frames of reference, and models guide occupation-based practice, as well as the history and development of the occupational therapy profession. The science of occupation key terms and concepts utilized in the field, current issues impacting occupational therapy, interprofessional practice, and professional ethics, values and responsibilities are discussed. The various areas of practice and specialization are also introduced.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 4

Typically Offered: Fall

OTE 612 - Occupational Development Through the Lifespan

Credit Hours: 3

The focus of this course is on the skill progressions in typical and atypical development and how these sequences impact occupational performance across the lifespan; environmental and cultural influences on development are also examined. The cognitive, psychosocial and physical aspects of the person on daily function are discussed in relation to occupation-based practice. The acquisition of values, roles, habits, temporal adaptations, interests and interprofessional collaboration are explored.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

OTE 615 - Professional Communication and Documentation

Credit Hours: 2

This course establishes the framework for documenting outcomes of occupation-based practice in an interprofessional environment, summarizes current theories and research about clinical and professional reasoning, and provides learning activities such as case studies designed to promote effective reasoning. Students will learn and apply effective documentation techniques used in the profession including electronic medical records.

Prerequisite: OTE 610.

Lecture Contact Hours: 2

Typically Offered: Summer

OTE 620 - Psychosocial Perspectives in Occupational Therapy Practice

Credit Hours: 3

This course provides an overview of psychosocial conditions across the lifespan among various environments that impact client function in the areas of occupation, performance skills and performance patterns. Topics include, but are not limited to crisis intervention, therapeutic use of self, specific intervention strategies, group dynamics, types of groups, group protocol development, and interprofessional collaboration. Cultural and community perspectives of mental and physical health are also examined.

Prerequisite: OTE 610 .

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

OTE 640 - Evidence-Based Practice

Credit Hours: 2

The course will analyze the clinical reasoning process used in health care disciplines, examine the different types and levels of clinical evidence, and explore the implementation of evidence-based practice skills in the client-centered and occupation-based practice. This course establishes a framework to develop interventions, promote health, well-being, and community engagement.

Prerequisite: OTE 610.

Lecture Contact Hours: 2

Typically Offered: Spring

OTE 645 - Clinical Gross Anatomy

Credit Hours: 5

The course offers in-depth coverage of basic, applied, and clinical aspects of gross anatomy. An advanced, musculoskeletal anatomy course that emphasizes the study of functional relationships between musculature, nervous tissue, vascular, and skeletal components for the extremities and axial skeleton: Cadaver dissection laboratory experience is used to enhance understanding of three dimensional anatomical relationships for specific body regions. Students observe, discuss, teach, learn and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students (peer-teaching) in laboratory sessions, and assignments that rely on critical thinking. Identical with BMS 645. Cannot receive credit for both OTE 645 and BMS 645.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 3 Lab Contact Hours: 6

Typically Offered: Fall

OTE 646 - Neuroscience

Credit Hours: 4

This course covers the foundations of neuroscience as they relate to the evaluation and treatment of occupational therapy clients. Topics include the properties of cells in the nervous system and major structures and functions of the central, peripheral, and autonomic nervous systems; sensory pathways, central processing and output mechanisms and how systems interact to influence occupational performance. Discussion of neurological diagnoses and theories for treatment is included.

Lecture Contact Hours: 3 Lab Contact Hours: 2

Typically Offered: Spring

OTE 650 - Clinical Biomechanics in Human Performance

Credit Hours: 3

Biomechanical fundamentals and principles as they apply to the human organism; description of normal motion emphasizing orthopedic biomechanics and neuromuscular control.

Prerequisite: OTE 645.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

OTE 720 - Cognition and Occupations Through the Lifespan

Credit Hours: 3

This course provides an overview of the etiology, incidence and prevalence, signs and symptoms, course and prognosis, and medical management of common cognitive conditions impacting occupational performance. The effects of neurological conditions, disabilities, and disorders on individuals are examined within the cultural context of family, community, and society. Relationships among cognitive disorders, impairments, activity limitations, function/dysfunction, and participation restrictions are emphasized in relation to their impact upon occupation. Students begin to explore occupation-based assessment and treatment of the various conditions seen in interprofessional practice.

Lecture Contact Hours: 3

Typically Offered: Summer

OTE 725 - Environmental Adaptations and Assistive Technology

Credit Hours: 2

Concepts, principles, selection and application of environmental adaptations and assistive technology to improve client function across the lifespan will be examined. Domains presented include, but are not limited to vision, hearing, communication, mobility, cognition, and environmental controls, and interprofessional collaboration. Modifications and high and low technology devices used in occupation-based practice will be discussed.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Fall

OTE 730 - Enablers and Barriers: Adult Occupations

Credit Hours: 4

This course provides an overview of the etiology, incidence and prevalence, signs and symptoms, course and prognosis, and management of common adult conditions impacting occupational performance. The effects on individuals are examined within the cultural context of family, community, and society. Enablers of and barriers to participation are emphasized in relation to their impact on occupation and co-occupation. Students begin to explore occupation-based assessment and treatment across

contexts and interprofessional practice settings.

Prerequisite: OTE 720.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Fall

OTE 731 - Essentials of Research Methods

Credit Hours: 2

This course serves as an introduction to research methodology in the context of health and human services. The specific aim of this course is to help students understand and grasp the relations between the research question, design, and method(s), and the data/theoretical interpretations. The material will be presented in a matter to strike a balance between fundamental, technical, and methodological activity to scientific and clinical research. Identical with PAS 777, RCH 720, and PTE 740. Can only receive credit for one of the following: OTE 731, PAS 777, PTE 740, or RCH 720.

Prerequisite: admission to Master of Occupational Therapy Program.

Lecture Contact Hours: 2

Typically Offered: Fall

OTE 732 - Applied Research Methods in Healthcare

Credit Hours: 1

Research course in which students deepen their understanding of occupational science and enhance their research abilities in order to contribute to the advancement of occupational therapy. Course will explore topics of research design and research methods for conducting applied and clinical research projects with a focus on applying outcomes-related research that can support clinical practices.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 1

Typically Offered: Fall

OTE 745 - Therapeutic Skills I: Adult Practice

Credit Hours: 4

Provides an overview of scientific inquiry, assessment, intervention planning and implementation of occupation-based practice with adults aged 21 and older; special consideration is given to the context of the family, community, environment and culture. The effects of selected medical conditions most commonly seen in occupational and interprofessional practice within this age group are covered. Students gain practical experience through the lab portion of the course which includes emphasis on intervention for adults.

Prerequisite: OTE 720.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Fall

OTE 746 - Management and Policy in Occupational Therapy Practice

Credit Hours: 3

This course introduces the student to the role of the occupational therapist as a manager and leader within the broader interprofessional health care system. Students are introduced to management functions, including fiscal management, marketing, and human resource functions. Discussion of regulatory systems, legal considerations, reimbursement mechanisms, current health care policy and emerging issues impacting health care practitioners is provided. Supervisory issues specific to the occupational therapist are explored. Students will identify and illustrate the role of occupational therapy in current policy issues regarding services to underserved communities.

Prerequisite: OTE 615.

Lecture Contact Hours: 3

Typically Offered: Spring

OTE 749 - Enablers and Barriers: Pediatric Occupations**Credit Hours: 4**

This course provides an overview of the etiology, incidence and prevalence, signs and symptoms, course and prognosis, and management of common pediatric conditions impacting occupational performance from infancy to early adulthood. The effects on individuals are examined within the cultural context of family, community, and society. Enablers of and barriers to participation are emphasized in relation to their impact on occupation and co-occupation. Students begin to explore occupation-based assessment and treatment across contexts and interprofessional practice settings.

Prerequisite: OTE 730.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Spring

OTE 750 - Therapeutic Skills II: Pediatric Practice**Credit Hours: 4**

Provides an overview of scientific inquiry, assessment, intervention planning, and implementation of occupation-based practice from birth to age 20; special consideration is given to the context of the family, community, environment and culture. The effects of selected medical conditions more commonly seen in occupational and interprofessional practice with this age group are covered. Students gain practical experience through the lab portion of the course which includes observation, evaluation, and assessment of children.

Prerequisite: OTE 745.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Spring

OTE 760 - Specialty Topics**Credit Hours: 1**

Variable topics course. In-depth study of contemporary occupation-based practice. Each offering concerns a single topic. Topics of interest will cover areas related to prosthetics and orthotics, low vision, hand/upper extremities, splinting, and current professional issues, interprofessional collaboration, community engagement, clinical evaluation, client interventions, faculty expertise, and/or student interest or needs. Must be repeated for minimum of four hours.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

OTE 761 - Level I Fieldwork Seminar

Credit Hours: 2

This course will provide students with exposure to a variety of clients, diagnoses, age ranges and practice settings, as well as the potential roles of occupational therapists. This course will provide an opportunity for students to interact with clients across the lifespan with a wide variety of diagnoses and occupational performance needs. Students will have the opportunity to observe the occupational process, interact with clients, and gain experience documenting therapeutic outcomes. Must be repeated for a minimum of six hours. Graded Pass/Not Pass only.

Prerequisite: permission of the Master of Occupational Therapy program director.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

OTE 765 - Community and Health Practice in Occupational Therapy

Credit Hours: 3

Coursework will focus on the science, theory and practice of occupational therapy in the promotion of health and wellness and the body's response to stress, illness or injury across the life span. An emphasis will be placed on the cultural and physical context of the community in which occupational and interprofessional healthcare practice occurs. This course integrates knowledge and skills for occupation-based practice to foster healthy development, prevent health problems, maintain optimal function, and enhance the occupational performance skills of individuals, families, and communities.

Prerequisite: admission to the Master of Occupational Therapy program.

Lecture Contact Hours: 3

Typically Offered: Summer

OTE 780 - Fieldwork Level II, Part 1

Credit Hours: 6

This course is the first half of the final practice experience in the curriculum to develop competent, entry-level, generalist occupational therapists. This supervised, 12-week fieldwork experience provides in-depth experience in delivering occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation and/or research, administration and management of occupational therapy services. Students demonstrate an ability to evaluate, treat, document and discharge clients with a variety of conditions across the lifespan and in a variety of practice areas. Professionalism, clinical reasoning skills, reflective and ethical practice, and communication with clients, significant others and professional colleagues are enhanced. Graded Pass/Not Pass only.

Prerequisite: completion of all didactic coursework; and permission of the Master of Occupational Therapy Program Director.

Typically Offered: Summer

OTE 790 - Fieldwork Level II, Part 2

Credit Hours: 3-6

This course is the second half of the final practice experience in the curriculum to develop competent, entry-level, generalist occupational therapists. Supervised fieldwork experience provides in-depth experience in delivering occupational therapy services to clients, focusing on the application of purposeful and meaningful occupation and/or research, administration and management of occupational therapy services. Students demonstrate an ability to evaluate, treat, document and discharge clients with a variety of conditions across the lifespan and in a variety of practice areas. Professionalism, clinical reasoning skills, reflective and ethical practice, and communication with clients, significant others and professional colleagues are enhanced. This in-depth supervised fieldwork will be in a different practice setting than Fieldwork Level II, Part 1. Students must complete a total of 12 weeks of Fieldwork Level II, Part 2 coursework in either one 12-week experience or two 6-week experiences. Must be repeated for a total of six hours. Graded Pass/Not Pass only.

Prerequisite: OTE 780; and permission of the Master of Occupational Therapy Program Director.

Typically Offered: Fall

OTE 798 - Research Project**Credit Hours:** 1

In-depth scientific study of an occupation-based clinical problem of interest that culminates in a scholarly paper and formal community presentation. Must be repeated three times for a total of three hours.

Prerequisite: OTE 732; and permission of the Master of Occupational Therapy Program Director.

Typically Offered: Fall, Spring, Summer

OTE 840 - Advanced Evidence-Based Practice**Credit Hours:** 3

This course is designed to enhance current practice through the application of evidence-based interventions. Includes the development of a line of inquiry, based on clinical scenarios, with the goal to demonstrate population-specific outcomes, the validity of intervention, and the cost-effectiveness of service delivery. The course examines evidence-based practice from conceptual, empirical, practical, and personal perspectives. Learning experiences include the creation of a critically appraised paper that promotes the socialization process of doctorally prepared practitioners and occupational therapy leaders.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 3

Typically Offered: Spring

OTE 860 - Advanced Clinical Practice**Credit Hours:** 3

This course is designed to offer students an opportunity to study new and/or specialized treatment techniques and their theoretical foundations in a specific area of practice. Practical applications of the selected treatment techniques are analyzed.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 3

Typically Offered: Spring

OTE 861 - Occupational Therapist as an Educator

Credit Hours: 2

This course examines the philosophical foundations of knowledge and learning and their relationship with occupational therapy theoretical principles. Major approaches to teaching are discussed, and implications for occupational therapy practice are sought. The educative role of occupational therapists in various settings, including clinics, hospitals, community agencies, and colleges and universities, is explored and identified. This course's major content areas include instructional design, methods, skills, and media; evaluation; and education and supervision of students during experiential learning.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring

OTE 862 - Occupational Therapy Teaching Practicum

Credit Hours: 2

This is a field experience-based course that requires the student to spend a minimum of 40 clock hours in a graduate teaching environment where students observe, teach, and/or participate in professional activities in graduate teaching under the direction of a cooperating supervisor/faculty member. The course emphasizes effective teaching and assessment techniques, as well as expertise in instructional planning and evaluation.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 2

Typically Offered: Fall

OTE 880 - Doctoral Capstone I: Project Planning

Credit Hours: 2

The student will identify an area of focus, examine the literature, identify a problem and purpose, plan and refine the capstone process, and set goals and objectives for the Capstone Project and Experience.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

OTE 881 - Doctoral Capstone II: Project Proposal

Credit Hours: 1

Student designs a scholarly proposal related to the Doctoral Capstone Project and Experience and identifies a scholarly question, relevant literature, sample, design, measurement, and data analysis (quantitative or qualitative). The project proposal is developed in preparation for an in-depth capstone experience in one or more of the following areas: clinical practice skills, research skills, administration, leadership, program and policy development, advocacy, education, and theory development.

Prerequisite: OTE 880 ; and admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 1

Typically Offered: Fall, Spring, Summer

OTE 901 - Advanced Ethics and Advocacy

Credit Hours: 3

This course focuses on ethical reflection, mediation, and decision-making in occupational therapy. Theoretical frameworks, concepts, and applied analytical strategies are examined critically in relation to their application to clinical practice. An emphasis is placed on the acquisition of skills necessary to perform ethics-related service and assume leadership roles in health care organizations, communities, professional associations, and regulatory agencies.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

OTE 921 - Cultural and Contextual Influences

Credit Hours: 3

This course will facilitate cross-cultural skills by promoting self-awareness and understanding of various cultural influences on the health care profession from macro, meso, and micro perspectives. These perspectives will be used to address the impact these factors have on therapy delivery, outcomes, and occupational performance for clients, communities, and populations.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

OTE 965 - Health Disparities and Social Determinants of Health

Credit Hours: 3

This course examines key social determinants of health, such as education, economic stability, health status and access to health care, and social and community contexts. The course teaches about the relationship between social determinants of health, the inequitable distribution of resources, and the contribution to health disparities and inequities. The impact of social determinants of health on health equity for individuals, groups, and populations is examined.

Prerequisite: admission to the Doctor of Occupational Therapy Program.

Lecture Contact Hours: 3

Typically Offered: Fall

OTE 980 - Doctoral Capstone III: Experience and Project

Credit Hours: 1-7

This course provides students with an in-depth experience to pursue the individually designed doctoral-level project that synthesizes knowledge, attitudes, and skills and enables students to achieve specific competencies related to advanced practice. The project builds upon knowledge gained throughout the Doctor of Occupational Therapy Program, including 1) the use of research evidence to make clinical decisions, 2) leadership and change within systems and treatment contexts, and 3)

development of theory-based innovative programs to meet the needs in a variety of practice areas and society at large. Once the final doctoral project is completed, project findings will be disseminated per course requirements. Variable content course. May be repeated to a maximum of seven hours.

Prerequisite: OTE 880 and OTE 881; and admission to the Doctor of Occupational Therapy Program.

Typically Offered: Fall, Spring, Summer

Physician Assistant Studies

PAS 717 - Medical Human Anatomy and Radiology

Credit Hours: 6

Regional study of the human body. Course will include lecture and laboratory activities including cadaver dissection, study of anatomic models, computer images, X-ray, CAT scan, and MRI and ultrasound imaging. Identical with BMS 717. Cannot receive credit for both PAS 717 and BMS 717.

Prerequisite: admission to the MS in Physician Assistant Studies or permission.

Lecture Contact Hours: 3 **Lab Contact Hours:** 11

Typically Offered: Spring

PAS 753 - Molecular Pathophysiology

Credit Hours: 1

Introduction to the genetic, immunologic, and microbiologic mechanisms of health and disease including ordering/interpreting basic laboratory tests.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 2

Typically Offered: Spring

PAS 765 - Clinical Assessment I

Credit Hours: 3

The first of a 2-semester course sequence. Introduction to effective communication and interviewing skills, techniques of physical examination utilizing a systematic anatomical approach and the recording and presentation of clinical information. Format will include lecture, hands-on laboratory exercises, small group presentations, limited patient contact and written and practical examinations.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Summer

PAS 766 - Clinical Assessment II

Credit Hours: 3

A continuation of Clinical Assessment I. Emphasis will be on continued development of interviewing and physical examination skills, recognizing and interpreting abnormal physical findings, developing problem lists and differential diagnoses, and refining the recording and presenting of patient evaluation data. In addition, students will learn advanced assessment techniques and perform written and practical skills examinations that incorporate the objective structured clinical exam (OSCE).

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Summer

PAS 769 - Social Aspects of Medicine**Credit Hours: 1**

A biopsychosocial systems approach to the individual, family and community within the health care delivery system that includes issues germane to public health and rural medicine. A variety of topics such as growth and development, human sexuality, health promotion and disease prevention, health education, patient compliance, cultural diversity, substance abuse, family violence, child abuse and rural health issues are examined. 1(0-2) S

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 2

Typically Offered: Spring

PAS 770 - Professional Issues Seminar**Credit Hours: 1**

Seminar format for discussion of professional and legal issues relevant to the physician assistant profession. Includes topics such as the history of the profession, health care systems, professional organizations, national certification, Missouri licensure, prescriptive privileges, and clinical ethics. 1(0-2) Su

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 2

Typically Offered: Summer

PAS 775 - Principles of Clinical Problem Solving**Credit Hours: 1**

Introduction to critical thinking skills and problem solving techniques. Incorporates problem based learning format where small groups of students under the supervision of a group leader explore the various facets of "real-life" clinical case scenarios.

Prerequisite: admission to the MS in Physician Assistant Studies or permission.

Lab Contact Hours: 2

Typically Offered: Spring

PAS 776 - Clinical Problem Solving Seminar

Credit Hours: 1

Advanced exercises in clinical problem solving in a small group format. Commonly presenting clinical problems are utilized as a means to refine students' ability to choose appropriate steps to determine a definitive diagnosis/outcome.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 2

Typically Offered: Fall

PAS 777 - Essentials of Research Methods**Credit Hours: 2**

This course serves as an introduction to research methodology in the context of health and human services. The specific aim of this course is to help students understand and grasp the relations between the research question, design, and method(s), and the data/theoretical interpretations. The material will be presented in a matter to strike a balance between fundamental, technical, and methodological activity to scientific and clinical research. Identical with OTE 731 , PTE 740 , and RCH 720 . Can only receive credit for one of the following: PAS 777, OTE 731 , PTE 740 , RCH 720.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 2

Typically Offered: Fall

PAS 780 - Pharmacotherapeutics I**Credit Hours: 1**

The first in a two-course sequence to introduce the principles of pharmacology and pharmacotherapeutics for the diagnosis, prevention and treatment of disease. Emphasis will be placed on the pharmacological, pharmacokinetic and pharmacodynamic properties of drugs and drug classes used in medical practice.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 1

Typically Offered: Summer

PAS 781 - Advanced Pharmacotherapeutics**Credit Hours: 3**

In-depth analysis of pharmacotherapeutics and the application of drugs for the diagnosis, treatment and prevention of disease. Emphasis will be placed on the rational use of drugs in the care and treatment of pediatric, adult and geriatric patients in primary care settings. Will include discussion of treatment guidelines, indications, contraindications, prescription writing, drug law, drug information resources and case studies. Identical with NUR 761. Cannot receive credit for both PAS 781 and NUR 761.

Prerequisite: completion of PAS 780, or RN, or permission.

Lecture Contact Hours: 3

Typically Offered: Fall

PAS 783 - Clinical Practicum I

Credit Hours: 1

A two week clinical experience with a minimum of 64 hours patient care under the supervision of a physician preceptor. Emphasis will be on refining interviewing, physical examination, recording and written/oral presentation skills.

Prerequisite: admission to the MS in Physician Assistant Studies and successful completion of didactic coursework.

Lab Contact Hours: 4

Typically Offered: Summer

PAS 784 - Clinical Practicum II

Credit Hours: 1

Preparative course for the clinical year which promotes professional communication skills and an understanding of pertinent clinical practice topics and issues including interprofessional disciplines, medical practice organization, health literacy, chronic care, hospice care, and financial aspects of medical practice including billing and coding.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 4

Typically Offered: Fall

PAS 785 - Clinical Medicine I

Credit Hours: 4

The first in a two-semester course sequence. Introduction to clinical medicine through an organs systems approach that examines the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 4 **Lab Contact Hours:** 2

Typically Offered: Summer

PAS 786 - Clinical Medicine II

Credit Hours: 6

A continuation of Clinical Medicine I that emphasizes the organs systems approach to examine the pertinent anatomy, pathophysiology, diagnosis, treatment, follow-up, patient education, and prevention strategies for the various disease entities. Emphasis will be on problems frequently encountered in primary care settings. Includes lecture and discussion. 6(6-2) F

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 6 **Lab Contact Hours:** 2

Typically Offered: Fall

PAS 787 - Laboratory Medicine and Clinical Procedures

Credit Hours: 2

"Hands-on" laboratory format class that introduces the student to skills needed to perform diagnostic and therapeutic procedures such as phlebotomy, casting and splinting, knot tying, suturing, intravenous line insertion, aseptic technique, catheterization, and other clinical skills. 2(1-3) F

Prerequisite: admission to the MS in Physician Assistant Studies.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Fall

PAS 788 - EKG and ACLS

Credit Hours: 2

A study of the principles and practical applications of electro-cardiography for the physician assistant, followed by an Advanced Cardiac Life Support course. Lecture, lab, interactive CD, and "mock code" skills training.

Prerequisite: admission to the MS in Physician Assistant Studies.

Lab Contact Hours: 4

Typically Offered: Fall

PAS 790 - Clinical Preceptorship

Credit Hours: 5

Consists of a six-week structured clinical experience under the supervision of a qualified preceptor that will introduce the student to the evaluation, diagnosis, treatment, monitoring, patient education, and referral of patients for the various clinical presentations within a specific discipline. The emphasis will be on problems encountered in primary care settings. Specific cognitive, skill, and attitudinal objectives are defined for each core clinical area, including family practice/primary care, general surgery, psychiatry/behavioral medicine, internal medicine, emergency medicine, women's health, and pediatrics. May be repeated.

Prerequisite: admission to the MS in Physician Assistant Studies and promotion from the didactic year.

Lab Contact Hours: 40

Typically Offered: Fall, Spring, Summer

PAS 797 - Clinical Practice Issues Seminar

Credit Hours: 1

Provides a forum for topics germane to the clinical practice setting and transition to professional practice. Topics of interest will cover areas such as managed health care, ethical decision-making, pharmacological management, resume preparation, job negotiation skills, the national certification examination, etc. May be repeated for a maximum of 3 hours.

Prerequisite: clinical year standing in the MS in Physician Assistant Studies.

Lab Contact Hours: 2

Typically Offered: Fall, Spring, Summer

PAS 798 - Research Project

Credit Hours: 2

In-depth study of a clinical problem of interest that culminates in a scholarly paper and formal presentation.

Prerequisite: clinical year standing in the MS in Physician Assistant Studies.

Typically Offered: Fall

Public Health

PBH 699 - Health Literacy in the Human Services

Credit Hours: 3

This course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. Identical with SWK 696; may be taught concurrently with IPE 599, SWK 599, or SWK 696. Can only receive credit one of the following: IPE 599, SWK 599, SWK 696, or PBH 699.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PBH 710 - Clinical Epidemiology

Credit Hours: 3

This course is an introduction to the epidemiological methods and procedures utilized in a clinical environment. This course will include the study of infectious and non-infectious disease epidemiology. Students will learn how to use basic epidemiological concepts and methods in the clinical setting in order to make better decisions regarding evidence based medicine and quality of care. Basic statistical measures used in the analysis of clinical and epidemiologic evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered. Additional topics include accessing and evaluating sources of data, qualitative and quantitative systematic reviews of literature based evidence, and meta-analyses. Identical with NUR 710. Cannot receive credit for both PBH 710 and NUR 710.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PBH 720 - Epidemiology

Credit Hours: 3

An introduction to the epidemiological methods and procedures utilized in the study of the origin, distribution, and control of disease. It will include the study of infectious and non-infectious disease etiology, including vector control, host defenses and resistance, and investigation of disease outbreaks. Students will learn to use basic epidemiological concepts and methods for program planning, evaluation, and research. Basic statistical measures used in the analysis of clinical and epidemiologic

evaluations, including measures of disease frequency and measures of absolute and relative effects, will be covered.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PBH 730 - Statistics for the Health Professions

Credit Hours: 3

This course focuses on the management and application of data generated by research completed in the context of health and human services. It will integrate the use of statistical methods, understanding the results of applying these methods, and drawing conclusions based upon data analysis. The intent of the course is to help students prepare to join local, national, and international research, practitioner, and/or application communities. Identical with RCH 710 . Can only receive credit for one of the following: RCH 710 or PBH 730.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PBH 735 - Software Applications and Data Sources in Public Health

Credit Hours: 3

This course will provide an overview of important software and databases that are commonly used in public health surveillance, program planning and research. Students will learn to access, analyze, and interpret morbidity and mortality data from a variety of national and statewide data sources (e.g., NHANS, BRFSS, MICA, CDC Wonder, vital statistics). Data will be analyzed descriptively using statistical software including Excel, CDC's EpiInfo, SPSS and/or SAS.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PBH 740 - Health Behavior

Credit Hours: 3

This course examines selected theories of health behavior relevant to individual and community health promotion program planning. Students will analyze biological, psychological, sociological, and environmental influences on health behavior and evaluate strategies for health promotion.

Lecture Contact Hours: 3

Typically Offered: Fall

PBH 745 - Environmental Health

Credit Hours: 3

This course will investigate and examine the relationships of environmental health problems to human health. Students will survey the major environmental issues facing developed and developing countries. Topics include water supply, air and noise

pollution, sewage treatment and waste disposal, pest and pesticides, toxic waste, energy alternatives, food and drug quality assurance, population control, and environmental disease control.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PBH 754 - Seminar in Health Policy

Credit Hours: 3

Politics of health policy formulation and planning. A study of participants in policy formulation, role of the different levels of government, issues and problems in health care planning, interrelationship of agencies involved, Medicare, Medicaid, national health insurance. Identical with PLS 754. Cannot receive credit for both PBH 754 and PLS 754.

Lecture Contact Hours: 3

Typically Offered: Spring

PBH 756 - Introduction to Public Health

Credit Hours: 3

This course will provide a general introduction to public health. It will discuss the history of public health; international, federal, state, and local agencies; voluntary health agencies; professional health organizations; the legislative process as it relates to public health, environmental health, health promotion, basic public health statistics and an introduction to epidemiology.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PBH 758 - Contemporary Issues in Public Health

Credit Hours: 3

In-depth consideration of pertinent issues, trends, controversy, and current research in public health.

Lecture Contact Hours: 3

Typically Offered: Fall

PBH 760 - Research Methods for the Health Professions

Credit Hours: 3

This course serves as an introduction to the evaluation and application of research methodology in the context of health and human services. The specific aim of this course is to help students grasp the relations between the research question, design, and method(s), the measurement of constructs, and the data/theoretical interpretations. The material will be presented in a manner to strike a balance between fundamental, conceptual, technical, and methodological activity to scientific and clinical research. Identical with ATC 732, CSD 702, NUR 772, and RCH 730. Can only receive credit for one of the following: ATC 732, CSD 702, NUR 772, PBH 760, RCH 730.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

PBH 772 - Toxicology and Hazardous Materials

Credit Hours: 3

A study of toxic substances and their effects in the environment and in living organisms. This course also includes a study of safety methods for identifying, monitoring, handling, processing, containing, storing, and disposing hazardous and toxic substances in the environment and workplace. Students are encouraged to have had courses in physiology, biochemistry and/or pharmacology.

Lecture Contact Hours: 3

Typically Offered: Fall

PBH 775 - Principles and Skills of Public Health Administration

Credit Hours: 3

This course is designed to provide a comprehensive overview of the administrative, managerial and organizational practices of health professionals in a variety of settings. Opportunities for the development and application of administrative competencies in health education/health care settings will be provided.

Lecture Contact Hours: 3

Typically Offered: Spring

PBH 778 - Chronic Disease Epidemiology

Credit Hours: 3

This course examines problems and methods used in studying chronic diseases. Focus will be on the collection and interpretation of chronic disease data, and application of epidemiological and statistical principles pertaining to cancer, cardiovascular diseases, cerebrovascular diseases, chronic lung diseases, diabetes, musculoskeletal diseases, neurologic disorders and other chronic diseases.

Lecture Contact Hours: 3

Typically Offered: Spring

PBH 781 - Public Health Preparedness

Credit Hours: 3

This course will investigate the health risks and hazards associated with emergency situations, and the roles of public health professionals and volunteers in the preparation for and response to emergencies and disasters.

Lecture Contact Hours: 3

Typically Offered: Fall

PBH 783 - International Health and Infectious Disease

Credit Hours: 3

This course will investigate the epidemiology, impact, and control of infectious diseases in the context of the international environment. Topics will include the structure and financing of health systems in the developing world, the medical community's ability to respond to infectious disease risks, and the specific impacts of major infectious diseases with an emphasis on tuberculosis, AIDS, and malaria. This course is not a clinical course and will not address the diagnosis or treatment of disease.

Lecture Contact Hours: 3

Typically Offered: Spring

PBH 785 - Seminar in Public Health

Credit Hours: 1-3

Variable topics course. The study, analysis, and discussion of timely issues in public health. May be repeated for credit if topic is different.

Prerequisite: permission of Program Director.

Typically Offered: Demand

PBH 788 - Public Health Practicum

Credit Hours: 1

The Public Health practicum is required of all students enrolled in the Professional Option of the MPH program. It will involve developing, implementing and establishing a public health intervention that includes, reflects, and integrates public health principles, theory, and practice as identified in the Masters in Public Health curriculum. All required courses must be completed in order to be eligible. Project selection must be approved by the course instructor.

Typically Offered: Demand

PBH 790 - Independent Study in Public Health

Credit Hours: 1-3

The independent study in Public Health is a carefully planned experience which allows the advanced student to investigate a clearly defined problem that will enhance their academic preparation. May be repeated for credit.

Prerequisite: permission of instructor and Program Director.

Typically Offered: Demand

PBH 798 - Public Health Field Experience

Credit Hours: 1-6

The required field experience provides experience in program development, community relations, public education, and research. Possible sites include: official health agencies, voluntary health agencies, or community social agencies. Selection is dependent on the students' backgrounds and career expectations. Students may choose to spend their entire time in one agency, or, for

shorter periods, in 2 or more agencies. The field experience can be done during the fall, spring, or summer and can be no less than 200 hours. All field experiences must be approved by the field experience faculty supervisor and the Program Director to ensure the site acceptability. May be repeated.

Prerequisite: students must have successfully completed 33 hours including all public health core and other required courses and passed the core course exam.

Typically Offered: Demand

PBH 799 - Capstone Project in Public Health

Credit Hours: 3

The Capstone Project provides students the opportunity to integrate knowledge gained in the classroom with real-world problems through completion of a major research, program planning, policy development, management, service delivery, or evaluation project. Some aspect of the project must be original, whether it is the topic itself, an analysis of newly collected or extant data, the reinterpretation of others' finding, or the design and completion of a community project. While student led, the project is designed in consultation with, and carried out under the guidance of, a faculty supervisor. Student must have the capstone project proposal form approved by the faculty supervisor and Program Director prior to enrollment.

Prerequisite: admission to the Master of Public Health program.

Lecture Contact Hours: 3

Typically Offered: Demand

Philosophy

PHI 613 - Bioethics

Credit Hours: 3

An introduction to central ethical questions that arise in the area of bioethics, and to the resources various ethical theories offer for resolving those questions. In addition to a brief overview of contemporary moral theory, the course will discuss issues such as euthanasia, informed consent, proxy decision making, experimental research on humans and health care allocation. Specific cases will be discussed and analyzed throughout the semester. May be taught concurrently with PHI 313. Cannot receive credit for both PHI 313 and PHI 613.

Lecture Contact Hours: 3

Typically Offered: Demand

PHI 696 - Selected Topics in Philosophy

Credit Hours: 2-4

Individual conference course for graduate students with specialized interests in particular areas of philosophy not covered in regular courses. May include independent research, progress reports and term papers. Enrollment requires advance agreement on topic. May be taught concurrently with PHI 596. Cannot receive credit for both PHI 596 and PHI 696.

Prerequisite: permission of department head.

Typically Offered: Demand

Physics

PHY 609 - Special Topics in Physics and Astronomy

Credit Hours: 1-3

Variable content, variable credit course. Topics to be chosen from current areas of interest. May be repeated to a maximum of six hours with different topic. May be taught concurrently with PHY 509. Cannot receive credit for both PHY 509 and PHY 609.

Prerequisite: permission.

Typically Offered: Demand

PHY 675 - Quantum Mechanics

Credit Hours: 3

A mathematical development of the principles of quantum mechanics and their application to selected systems. Topics include Schrodinger's equation, operators, Heisenberg uncertainty principle, angular momentum, and applications, including the hydrogen atom. May be taught concurrently with PHY 575. Cannot receive credit for both PHY 575 and PHY 675.

Prerequisite: PHY 375 or CHM 607.

Lecture Contact Hours: 3

Typically Offered: Fall

PHY 692 - Computational Methods and Data Analysis in Physical Sciences

Credit Hours: 3

Computational techniques related to physical sciences including techniques used for data analysis. An exploration of scientific operating systems, programs used for analysis and simulations, and methods for analyzing data and producing simulations. May be taught concurrently with PHY 591. Cannot receive credit for both PHY 591 and PHY 692.

Prerequisite: PHY 291 or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

PHY 701 - Workshop on Topical Issues in Science Education

Credit Hours: 1-3

Workshop to upgrade understanding of selected topics in science, and improve elementary, middle school and/or secondary science teaching. Each workshop will include performance and analysis of appropriate investigations to enhance understanding of the selected topics. Number of class hours determined by semester hours of credit. Variable content course. May be repeated to a maximum of six hours provided the topics are different.

Prerequisite: permission.

Typically Offered: Demand

PHY 785 - Physics Laboratory for Teachers

Credit Hours: 3

Performance and analysis of secondary laboratory experiments in physics.

Prerequisite: permission.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

PHY 790 - Seminar in Physics

Credit Hours: 2

Extensive paper on agreed topic in physics or astronomy to be read before staff seminars. May be repeated to a maximum of four hours.

Prerequisite: permission.

Lecture Contact Hours: 2

Typically Offered: Demand

PHY 796 - Science Internship

Credit Hours: 1-6

Completion of an internship project (80 hours/credit hour) at a discipline-related business, nonprofit organization, or government agency, approved and supervised by both the departmental and internship advisors. Includes a formal report in the appropriate professional format, and an oral presentation at an approved venue. Graded Pass/Not Pass only. No more than 6 hours may count toward a master's degree.

Typically Offered: Fall, Spring, Summer

PHY 799 - Research in Natural and Applied Sciences

Credit Hours: 1-6

Supervised research in the natural and applied sciences. May be repeated, but no more than 12 hours may be counted toward the master's degree. Cannot be applied toward the MS degree in Materials Science.

Prerequisite: permission of department head.

Typically Offered: Demand

Planning

PLN 605 - Social Planning

Credit Hours: 3

This course will address planning practice in relation to values of justice, equity, fairness, and efficiency. In particular the course will focus upon inclusion of different community groups within the planning decision making process. A field project is required. May be taught concurrently with PLN 505. Cannot receive credit for both PLN 505 and PLN 605.

Lecture Contact Hours: 3

Typically Offered: Spring

PLN 670 - Planning Law

Credit Hours: 3

Study of the legal foundations of land use controls. Topics include historic legal cases establishing government intervention in private development zoning, subdivision, growth management, individual liberty, environmental regulation and the general welfare concept. May be taught concurrently with PLN 570. Cannot receive credit for both PLN 570 and PLN 670.

Lecture Contact Hours: 3

Typically Offered: Spring

PLN 671 - Land Use Planning

Credit Hours: 3

Focuses on conceptual and analytical techniques of land use planning, including land use analysis, planning studies and procedures, and the synthesis of planning elements through comprehensive plan development. The course also explores land use planning with regard to social justice and sustainability, diverse communities, and resiliency planning. May be taught concurrently with PLN 571. Cannot receive credit for both PLN 571 and PLN 671.

Recommended Prerequisite: PLN 371 or PLN 372 or FIN 266.

Lecture Contact Hours: 3

Typically Offered: Fall

PLN 672 - Community Planning Practicum

Credit Hours: 4

This course provides students the opportunity to apply the accumulated knowledge of planning theory and skills learned throughout the program. It focuses on the process of community planning and plan development. It also provides experience in the application of planning principles and analytic techniques to an actual planning scenario. Students will work on an individual basis and as part of a team to create a planning document. Field trip(s) required. May be taught concurrently with PLN 572. Cannot receive credit for both PLN 572 and PLN 672.

Recommended Prerequisite: PLN 367.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Spring

PLN 673 - Urban Design and Preservation

Credit Hours: 3

Elements of urban design and preservation in relation to social, economic, and political forces; the role of the urban designer in the planning process. May be taught concurrently with PLN 573. Cannot receive credit for both PLN 573 and PLN 673.

Recommended Prerequisite: PLN 371 and GRY 322.

Lecture Contact Hours: 3

Typically Offered: Spring

PLN 674 - Open Space Planning

Credit Hours: 3

Principles and methods of open space planning. Students will learn about the relationship between open space and the quality of life in cities and will obtain a foundation for conducting open space planning projects. Class format includes lecture, seminar and studio. Field problem required. May be taught concurrently with PLN 574. Cannot receive credit for both PLN 574 and PLN 674.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

PLN 676 - Site Planning and Design Studio

Credit Hours: 4

Focuses on the principles of site planning approaches in evaluating, planning, and designing sites within the context of natural and cultural systems. Provides a foundation for conducting any type of site planning project. A specific site in the region is studied and plans are developed for present and future use. May be taught concurrently with PLN 576. Cannot receive credit for both PLN 576 and PLN 676.

Prerequisite: PLN 371 and PLN 372.

Lecture Contact Hours: 3 **Lab Contact Hours:** 2

Typically Offered: Fall

PLN 696 - Research in Planning

Credit Hours: 1-3

Enrichment through guided but independent, original research in planning and planning related subject areas. May be repeated to a maximum of six hours. May be taught concurrently with PLN 596. Cannot receive credit for both PLN 596 and PLN 696.

Prerequisite: permission.

Typically Offered: Fall, Spring

PLN 697 - Selected Topics in Planning

Credit Hours: 1-5

Detailed treatment of various advanced topics in planning which may vary from semester to semester. Some typical topics: Economic Development Planning, Rural and Small Town Planning, Housing in America. Variable content course. May be repeated to a maximum of six hours. May be taught concurrently with PLN 597. Cannot receive credit for both PLN 597 and

PLN 697.

Typically Offered: Demand

PLN 699 - Internship in Community and Regional Planning

Credit Hours: 1-3

Work in community or regional planning agency. Students are monitored by Planning faculty and supervisory personnel of the planning agency. May be repeated to a maximum of six hours. May be taught concurrently with PLN 599. Cannot receive credit for both PLN 599 and PLN 699.

Recommended Prerequisite: PLN 571.

Typically Offered: Fall, Spring, Summer

PLN 704 - Community Resource Planning

Credit Hours: 1-3

Explanation of community growth and change. Review of public and private agency programs. Topics may focus on small towns and rural areas as well as urban and metropolitan areas. Variable content course. May be repeated to a maximum of seven hours with permission.

Typically Offered: Demand

Political Science

PLS 630 - Nonstate Actors in International Politics

Credit Hours: 3

Nation states have long been the primary players in international relations, endowed with sovereignty to reflect their premier status. While nonstate actors have always been around, scholarly attention to them has increased in recent decades. This course will explore benevolent actors such as NGOs, faith based organizations, and social and environmental movements as well as malevolent groups like pirates, criminal organizations, and terrorists. Students will gain a deeper understanding of international relations through an examination of the myriad actors involved in contemporary world politics. May be taught concurrently with PLS 530. Cannot receive credit for both PLS 530 and PLS 630.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 635 - American Foreign Policy

Credit Hours: 3

The course explores the various governmental institutions and societal forces which shape American foreign policy. The major emphasis is on American foreign policy since World War Two. Current issues in American foreign policy are discussed in light of contemporary theoretical and methodological approaches. May be taught concurrently with PLS 320. Cannot receive credit for both PLS 320 and PLS 635.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 639 - Playing Games with the World

Credit Hours: 3

A course designed to explore theories and paradigms of international relations via popular culture, simulations and games. May be taught concurrently with PLS 439. Cannot receive credit for both PLS 439 and PLS 639.

Lecture Contact Hours: 3

Typically Offered: Spring Even

PLS 642 - Contemporary Political Ideologies

Credit Hours: 3

A systematic study of the major competing ideologies of the 19th and 20th Centuries, including conservatism, liberalism, nationalism, Marxism, democratic socialism, fascism and national socialism, and others. Special emphasis is placed on the historical sources philosophical foundations and argumentative structure of these influential ideologies. May be taught concurrently with PLS 565. Cannot receive credit for both PLS 565 and PLS 642.

Lecture Contact Hours: 3

Typically Offered: Spring Even

PLS 644 - Government and Politics of the Middle East

Credit Hours: 3

Political systems, processes and problems of the Middle East, considered both regionally and in the perspective of separate nation-states, from the beginning of the modern period about 1800 to the present. May be taught concurrently with PLS 544. Cannot receive credit for both PLS 544 and PLS 644.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 645 - Asian Politics

Credit Hours: 3

A comparative study of the political and economic systems of contemporary Asia with emphasis on Japan, Korea, mainland China and Taiwan. Ideologies and strategies pursued by selected Asian governments are covered. Includes an assessment of contemporary economic, political and security issues in the region. America's economic, political and strategic ties with the region are also explored. May be taught concurrently with PLS 545. Cannot receive credit for both PLS 545 and PLS 645.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 646 - Political Violence and Terrorism

Credit Hours: 3

The systematic study of political violence in its different forms. The course content is structured along a continuum, ranging from small scale violence to mass violence-assassinations, terrorism by sub-national and transnational organizations, state terror and genocide. May be taught concurrently with PLS 546. Cannot receive credit for both PLS 546 and PLS 646.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 647 - Politics of the European Union and Its Members

Credit Hours: 3

This course will focus on the historical evolution of the European Union (EU) since the 1950s, the ongoing integration process within the organization (vertical integration), and its enlargement beyond the present members (horizontal integration). It will also address the EU's position in global and regional politics, its links to the United States, and the development of international governmental organizations. May be taught concurrently with PLS 547. Cannot receive credit for both PLS 547 and PLS 647.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 648 - Latin American Politics

Credit Hours: 3

Broad introduction to the politics of Latin America. Although it will offer substantial historical background, the emphasis of the course will be on recent decades. To familiarize the student with some of the major general issues facing Latin America while also giving them a taste of its tremendous diversity. The course is structured around four basic topics: economic development, democratization, guerrilla movements and revolution, and drug trafficking. In the process of discussing these topics, various countries will be explored such as Brazil, Chile, Colombia, Cuba, Guatemala, and Mexico. A recurring theme will be the relationship between the United States and Latin America. May be taught concurrently with PLS 548. Cannot receive credit for both PLS 548 and PLS 648.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 649 - Nationalisms and Islamisms of the Middle East

Credit Hours: 3

This is an introductory course on selected ideologies of the Middle East in seminar form; it presupposes only basic knowledge of the region as well as previous exposure to comparative politics. The course surveys the historical and political trajectories of selected nationalisms and Islamist ideologies in the Middle East: Pan-Arabism, various Arab territorial nationalisms, Zionisms, Turkish nationalisms, Kurdish nationalisms and various strains of Islamism. May be taught concurrently with PLS 443. Cannot

receive credit for both PLS 443 and PLS 649.

Lecture Contact Hours: 3

Typically Offered: Fall Even

PLS 650 - Modern African Politics

Credit Hours: 3

A comparative study of the political and economic systems of contemporary Africa with emphasis on sub-Saharan Africa. Ideologies and strategies pursued by selected African governments are covered, including an assessment of contemporary economic, political, and strategic ties within the region and internationally. The class will emphasize such areas as Mauritania, Senegal, Kenya, Somalia, Nigeria, and South Africa. May be taught concurrently with PLS 550. Cannot receive credit for both PLS 550 and PLS 650.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 651 - Administrative Law

Credit Hours: 3

A study of administrative agencies in their rule making and adjudicatory functions; administrative procedures including hearings and the judicial review thereof; legislative committee operations and their relation to the agencies. After several lecture type presentations by the instructor on the above topics, each student will be expected to present an oral and written review of some area of administrative law which requires further development through agency regulation and/or judicial review.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 669 - Foreign Policies of the Middle Eastern States

Credit Hours: 3

This course focuses on the foreign policies of selected Middle Eastern states and non-state actors. The course will refer to various paradigms of international relations, so a previous course in international relations (especially an introductory or theory course) is highly recommended. Concerns of this course will include to what extent we can view the states of the Middle East of rational actors, the role of individual decision makers, unintended policy results, and the need to balance domestic and external policy imperatives. The central pedagogic concern revolves around understanding how and why various Middle Eastern state choose the policies they do. May be taught concurrently with PLS 569. Cannot receive credit for both PLS 569 and PLS 669.

Lecture Contact Hours: 3

Typically Offered: Spring Even

PLS 673 - Policy Analysis

Credit Hours: 3

A study of the major qualitative and quantitative techniques in public policy analysis. The course will examine diverse processes of public policy formulation, and analyze various public policy alternatives. Each student will complete an empirical research project. May be taught concurrently with PLS 573. Cannot receive credit for both PLS 573 and PLS 673.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 676 - Quantitative Methods of Political Science and Public Policy

Credit Hours: 3

Introduction to the use of standard computer programs (especially SPSS) for the analysis and interpretation of political and social data. Covers analysis of nominal and ordinal data, descriptive and inferential statistics, hypothesis testing, correlation, linear and multiple regression. There will be a critical review of the applications of these techniques to the analysis of political science and public policy research questions, including ethical issues associated with quantitative research. May be taught concurrently with PLS 576. Cannot receive credit for both PLS 576 and PLS 676.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PLS 685 - Public Policy for a Global Environment

Credit Hours: 3

Course examines how environmental policy is made in the United States and the international community. The course covers the institutions and groups that participate in making environmental policy and the process by which it is made. Domestic and international issues and problems explored include clean air, clean water, pesticides, risk assessment and management, toxic and hazardous substances, public lands, the greenhouse effect, and stratospheric ozone depletion. May be taught concurrently with PLS 555. Cannot receive credit for both PLS 555 and PLS 685.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 705 - Seminar in Comparative Politics

Credit Hours: 3

A survey of the main theoretical and methodological debates in the field of Comparative Politics. Topics may include the roots of authoritarianism and democracy, the effects of constitutional design, the causes of ethnic conflict, the interaction between religion and political institutions, the origins of social policy regime variation, and the impact of natural resource wealth on the state, among others.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 713 - Seminar in Foreign Policy Decisionmaking

Credit Hours: 3

An examination of the factors that shape foreign policy decisionmaking, especially as they have evolved in the 20th century in the United States. In addition to an examination of the governmental institutions and societal forces that influence policy, students will critically analyze decisionmaking models that have been developed to explain how and why foreign policy decisions are made.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 715 - Comparative Public Administration**Credit Hours:** 3

The course will review the literature on the study of comparative public administration. The body of the course will focus on substantive public management issues in a variety of countries. Students will be expected to understand the rationale for the subfield, its development, and develop the skills needed to conduct scientific analysis.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 717 - Multidisciplinary Approaches to Homeland Security**Credit Hours:** 3

Examines the full spectrum of both homeland security and defense activities, the diverse responsibilities of the primary stakeholders, and current policies and practical efforts to develop and integrate homeland security and defense efforts nationwide.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 719 - Strategic Planning and Organizational Imperatives in Homeland Security**Credit Hours:** 3

The attainment of homeland security goals is dependent on comprehensive planning and organization to integrate and mobilize all levels of government and private sector responses. This course critically analyzes these efforts.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 721 - International Political Economy**Credit Hours:** 3

A general introduction to the politics of international economic relations, with a special emphasis on the extent, causes, and consequences of globalization. Covers such topics as trade, investment, aid, global warming, international institutions, and the political roots of economic development. Identical with ECO 721. Cannot receive credit for both PLS 721 and ECO 721.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 725 - International Security

Credit Hours: 3

Understanding international conflict is critical whether one works in government, works in the private sector assessing the risks conflict poses to investments and supply chains, or simply desires to be an informed citizen. This course will introduce the main theories international relations scholars use to account for the causes and dynamics of conflict. The course will also foster skills in applying these theories to forecasting security-related events.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 732 - International Relations in Theory and Practice

Credit Hours: 3

An examination of the principal paradigms and approaches in the study of international relations as they have evolved, particularly in the 20th century, and their usefulness for understanding the practice of global affairs. Students will familiarize themselves with both theoretical and substantive aspects of international relations and global affairs. Completion of a major research project focusing on an issue or region and analyzing it from a theoretical perspective is required.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 737 - Seminar in International Organizations

Credit Hours: 3

A study of the historical development and theoretical foundations of international organizations. Readings and research will emphasize recent issues and developments in both regional and global aspects in the organization of the international system.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 752 - Public Personnel Management

Credit Hours: 3

Intensive examination of the management of personnel focused directly on the public sector at the federal, state, and local levels. The course will explore the development, structure, and procedures of the public service. Issues of public personnel management to be examined include: perspectives on the public service, merit and patronage systems, labor relations, civil service reform, anti-discriminatory policies, and productivity and accountability.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 753 - Management Techniques and Organizational Behavior

Credit Hours: 3

A core lecture course designed to familiarize the student with the development of managerial skills through MBO, decision making theory, strategy implementation, change theory and development administration, problem solving, coordination within the organization, communication techniques and effecting productivity. Emphasis will be placed upon the applicability of management and organizational theory to the public sector.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 754 - Seminar in Health Policy

Credit Hours: 3

Politics of health policy formulation and planning. A study of participants in policy formulation, role of the different levels of government, issues and problems in health care planning, interrelationship of agencies involved, Medicare, Medicaid, national health insurance. Identical with PBH 754. Cannot receive credit for both PBH 754 and PLS 754.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 756 - Budgeting and Financial Management for State and Local Government

Credit Hours: 3

This course examines theories, practices, and issues of public budgeting and financial management. It covers a wide range of topics, including public budget institutions and techniques, revenue sources, tax strategies, revenue forecasts, public debt and bond issuance, intergovernmental fiscal relations, and basic categories of state of local expenditures.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 757 - Topics Seminar in Public Policy and Administration

Credit Hours: 1-3

Topics course. The specific topics will change from semester to semester. May be repeated as topics change.

Typically Offered: Demand

PLS 759 - Seminar in Administrative Management and Organizational Theory

Credit Hours: 3

This course provides an overview of the major theories that explain the function and operation of organizations, with particular emphasis on the role and context of the public sector. Topics include systems theory, organizational culture, organizational design and structure, and the operation of politics and power within organizations.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 760 - Management of Intergovernmental Relations**Credit Hours:** 3

The course is designed to familiarize students with the nature and scope of intergovernmental relations and how they impact issues such as fiscal management, grantsmanship, public policy formulation, public program monitoring and administration.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 761 - Management of Nonprofit Organizations**Credit Hours:** 3

This course provides a general survey of nonprofit organizations. It will examine the historical, legal, ethical, and social environments in which nonprofit organizations operate. It will also discuss various aspects of nonprofit organization management, ranging from managing people and money to managing public relations and trust. The course will integrate theoretical and practical aspects of nonprofit management.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

PLS 762 - Public Policy and Program Evaluation**Credit Hours:** 3

The course is designed to familiarize students with the nature and role of evaluation in the policy process. Topics will include the various types of evaluation, evaluation methods, evaluability assessment, program monitoring, impact assessment, process assessment, utilization of evaluation findings, and the politics of evaluation.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

PLS 763 - The Policy Process**Credit Hours:** 3

This course is designed to explore how public policy is made at all levels of government in the United States. Approximately two-thirds of the course will focus on the policy process; the remainder will concentrate on two or three major policy issues.

Students will do an extended paper on a policy issue applying the concepts from the first part of the course.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 771 - Seminar in Public Administration

Credit Hours: 3

This course is designed as the foundation course for the Master of Public Administration program. Topics covered include the development of public administration as a field of inquiry, political, social, economic, and legal processes and institutions, the policy process, and values and ethics.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 772 - Introduction to Public Safety Services

Credit Hours: 3

This course introduces students to the current principles and practices of public safety services from the theoretical and practitioner's perspective. Course will cover how services are provided, management challenges, the levels of emergencies and disaster operations, preparedness, recovery and mitigation.

Lecture Contact Hours: 3

Typically Offered: Fall

PLS 773 - Hazard Analysis, Mitigation, and Preparedness

Credit Hours: 3

This course focuses on crucial actions taken in preparing the emergencies. All public safety agency work begins with a thorough analysis of the hazards faced whether they are from natural causes or manmade. The course will introduce students to various methods for conducting the hazard analysis regardless of whether for law enforcement, fire service, emergency medical services or 9-1-1. The class examines various methods to mitigate the occurrences of those incidents and how public safety agencies can prepare themselves and the public for when they occur.

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 774 - Municipal Planning and Zoning

Credit Hours: 3

The purpose of this course is for students to gain a working knowledge of the legal nature, the administration, and the politics of major land-use regulatory powers exercised by local government. Municipal planning and zoning controls emphasized in this course are zoning codes, subdivision review, site plan review, building codes, and the exercise of eminent domain. Course will assess how combinations of these practices may be utilized in comprehensive growth management strategies, as well as in the

negotiations for, and the implementation of, agreements for individual planned unit developments and for annexations of land to municipalities. Course will also relate these powers to urban planning practices including strategic and comprehensive planning.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 775 - Economic Development for Local and State Governments

Credit Hours: 3

The purpose of this course is to familiarize students with the local, state and national contexts in which local economies operate to provide them with a background for developing successful economic strategies at the local level. Upon completion of the course, students should have a better understanding of how these issues are being addressed in governments around Missouri and throughout the United States. The goal is to better prepare future managers for their first local government jobs that will often carry the title of administrator in a small, rural community.

Lecture Contact Hours: 3

Typically Offered: Demand

PLS 776 - Local Public Service Delivery

Credit Hours: 3

This course prepares students to provide management and guidance to various local government services such as public works, police, fire, parks, utilities, and human services. It covers issues of governance which enable various government and non-for-profit groups to cooperate in the delivery of these services. The focus is on management in medium and small-sized municipalities in both rural and urban settings. Extensive use of guest lectures and site visits are essential components of this course.

Lecture Contact Hours: 3

Typically Offered: Spring Even

PLS 777 - Local Government and Politics and Administration

Credit Hours: 3

This course familiarizes students with a broad array of local government issues, structures, management concerns, and politics. Interwoven throughout the course is a discussion of the roles that professional administration and local politics play in everyday local government operations. The major focus will be on the decision making process of professional administrators as they attempt to bring both efficiency and effectiveness to local government.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

PLS 778 - Ethics and Leadership in the Public Sector

Credit Hours: 3

This course examines the role and impact of leadership in public organizations, with particular focus on the ethical dimensions of leadership behavior. The course provides an overview of the knowledge, theory, and skills regarding leadership and professional ethics. Topics include charismatic and transformational leadership, leadership styles, the role of the leader in creating ethical climates and building effective ethical cultures, organizational change strategies, and motivation strategies. Also covered are the ethical codes, standards, and practices promulgated by the American Society for Public Administration (ASPA) and the International City Management Association (ICMA).

Lecture Contact Hours: 3

Typically Offered: Spring

PLS 780 - Independent Study in Political Science

Credit Hours: 1-4

Carefully planned independent study designed on an individual basis for the advanced student who wishes to investigate a well defined problem not dealt with adequately by standard courses. Normally, a student may take PLS 780 only once to fulfill the requirements of the non-thesis option or as part of the cognate field if pursuing the thesis option.

Prerequisite: permission of instructor.

Typically Offered: Fall, Spring

PLS 781 - In-Service Training in Public Administration

Credit Hours: 3

Supervised field work in an approved local, state, or national governmental agency including preparation of an acceptable formal report.

Prerequisite: permission of Master of Public Administration Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PLS 782 - Internship/Practicum in International Field

Credit Hours: 3

Supervised field work in a federal government agency, international governmental/non-governmental organization, multinational corporation, or equivalent. The course requirements include a formal report on the internship/practicum and evaluation by the supervisor.

Prerequisite: permission of program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PLS 797 - Special Topics in Global Affairs

Credit Hours: 1-3

The specific topics will change from semester to semester, and will include subjects such as international humanitarian law,

comparative foreign policy, global Islamic movements, and globalization. Variable content course. May be repeated as topics change.

Prerequisite: permission of instructor.

Typically Offered: Demand

PLS 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis.

Prerequisite: permission of Master of Global Studies or Master of Public Administration Program Director and department head.

Typically Offered: Demand

Psychology

PSY 602 - Learning Theories

Credit Hours: 3

An introduction to contemporary theories about learning and behavior, emphasizing the experimental basis of these phenomena. May be taught concurrently with PSY 502. Cannot receive credit for both PSY 502 and PSY 602.

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 604 - Forensic Child Psychology

Credit Hours: 3

Explores the basics of forensic psychology with emphasis on factors that affect children, how these factors are assessed and how communities intervene to reduce both child crime and child victimization. The class will involve text analysis as well as analysis of primary source readings. May be taught concurrently with PSY 505. Cannot receive credit for both PSY 505 and PSY 604.

Recommended Prerequisite: PSY 121.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 606 - Perception

Credit Hours: 3

Nature of perception, concept formation and role of language. May be taught concurrently with PSY 506. Cannot receive credit for both PSY 506 and PSY 606.

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 612 - Personality Theory and Systems

Credit Hours: 3

Current theories of personality, research background and historical development. May be taught concurrently with PSY 512. Cannot receive credit for both PSY 512 and PSY 612.

Recommended Prerequisite: PSY 121 and PSY 304.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 613 - Neuropsychology

Credit Hours: 3

Introduction to the field of neuropsychology. Includes careers, history, behavioral changes after brain injury, assessment, and ethical considerations. May be taught concurrently with PSY 513. Cannot receive credit for both PSY 513 and PSY 613.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 614 - Introduction to Applied Behavior Analysis

Credit Hours: 3

Serves as an introduction to the field of applied behavior analysis. During this course, students are introduced to content areas contained in the Behavior Analysis Certification Board Task List. This includes core concepts such as reinforcement, punishment, stimulus control, and principles of shaping. Students will be introduced to functional assessments and functional analyses. Additional topics include verbal behavior and ethical considerations for behavior analysts. May be taught concurrently with PSY 508. Cannot receive credit for both PSY 508 and PSY 614.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 617 - Psychology of Child Abuse and Exploitation

Credit Hours: 3

Study of forensic issues related to child abuse and exploitation. Students will gain an understanding of the forensic and psychological issues that often arise during child abuse investigations. The Child Advocacy Center, Inc. will participate in the design of the course, thus the specific forensic issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 514. Cannot receive credit for both PSY 514 and PSY 617.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PSY 619 - Cognitive Development

Credit Hours: 3

Study of cognitive development in children and adolescents. Topics to be included: perception, memory, visual imagery, problem solving, language development, cognitive style, social learning theory, information processing theory, and Piaget's theory. Applications in education, child rearing, and behavior management. May be taught concurrently with PSY 519. Cannot receive credit for both PSY 519 and PSY 619.

Recommended Prerequisite: PSY 121 and PSY 331 and 3 additional hours of psychology.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 622 - Physiological Psychology

Credit Hours: 3

Physiological correlates underlying behavior, including sensory and response mechanisms, central nervous system. May be taught concurrently with PSY 521. Cannot receive credit for both PSY 521 and PSY 622.

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 623 - Psychology and Language

Credit Hours: 3

An examination into the nature of and research in human language and its relationship to psychology. Topics will include the biological bases of language, speech production and perception, word recognition, sentence processing, reading, discourse, dyslexia, grammar and the lexicon. This course will cover current theories on these topics and experimental paradigms analyzing language and psychology. May be taught concurrently with PSY 523. Cannot receive credit for both PSY 523 and PSY 623.

Recommended Prerequisite: 6 hours of Psychology.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 625 - Motivation and Emotions

Credit Hours: 3

Psychological and physiological motives, needs, drives and instinctual mechanisms; emotional effects of these upon the organism. May be taught concurrently with PSY 525. Cannot receive credit for both PSY 525 and PSY 625.

Recommended Prerequisite: PSY 121 and 3 additional hours of psychology.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 627 - Advanced Psychological Statistical Methods

Credit Hours: 3

A review of introductory statistics and investigation of research methods in behavioral sciences that require multivariate statistical models. This course takes an applied orientation and emphasizes the use of statistical packages. Topics include: linear models, principal components analysis, discriminant analysis, multiple regression analysis, multiple regression with categorical variables, and multi-factor ANOVA. May be taught concurrently with PSY 527. Cannot receive credit for both PSY 527 and PSY 627.

Recommended Prerequisite: introductory statistics course selected from PSY 200, PSY 711, AGR 330, ECO 308, MTH 340, QBA 237, REC 328, SOC 220 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 629 - Psychological Tests and Measurements

Credit Hours: 3

Theory and techniques underlying measurement of human traits and abilities. Critical analysis of intellectual, achievement, interest and personality tests, including their development, application and potential abuses. May be taught concurrently with PSY 529. Cannot receive credit for both PSY 529 and PSY 629.

Recommended Prerequisite: PSY 121 and PSY 200 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PSY 633 - Psychological Issues in Religion

Credit Hours: 3

Comprehensive overview of historical background, research methods, and contemporary issues involving behavior and religious beliefs. Psychological research in the areas of religious development and cognition will be included. May be taught concurrently with PSY 533. Cannot receive credit for both PSY 533 and PSY 633.

Recommended Prerequisite: PSY 121 and REL 100.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 634 - Psychology of Infancy

Credit Hours: 3

Theory and research on the maturation and cognition of the human infant in the first two years, from a developmental psychometric perspective. General principles of the mental and motor assessment of the infant and interpretation will be emphasized through class demonstrations so that the student may understand the use of these procedures in interpreting development and research. May be taught concurrently with PSY 534. Cannot receive credit for both PSY 534 and PSY 634.

Recommended Prerequisite: PSY 121 and PSY 331.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 635 - Discipline and Social Behavior in the Classroom

Credit Hours: 3

Provides a psychological perspective of individual and social factors necessary to develop an effective eclectic approach to discipline and an understanding of social behavior in the classroom. Includes an emphasis on personal, social, and motivational development. May be taught concurrently with PSY 535. Cannot receive credit for both PSY 535 and PSY 635.

Recommended Prerequisite: PSY 121; and either PSY 360, PSY 380, PSY 385, or PSY 390.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 648 - Psychological Testing in Remedial Reading

Credit Hours: 3

Techniques and skills in utilizing psychological tests as they pertain to diagnosing reading disabilities and prediction of success in remedial programs. Students receive supervised practice in administration. May be taught concurrently with PSY 550. Cannot receive credit for both PSY 550 and PSY 648.

Prerequisite: permission of school director.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

PSY 649 - Developing Sport Team Leaders

Credit Hours: 1

This course delivers leadership, team processes, and motivation principles to help coaches develop the leadership skills of sport team athletes. This course aligns sport program goals with educational goals by utilizing athletic settings to promote skills that student-athletes can apply on sport teams and in other group settings. Coaches will learn how to set specific leadership goals with

team leader-athletes and will learn concrete and constructive ways to mentor leader-athletes. Coaches will use course principles to construct a plan for developing sport team leaders and for making "team leadership" a core team value. May be taught concurrently with PSY 555. Cannot receive credit for both PSY 555 and PSY 649.

Lecture Contact Hours: 1

Typically Offered: Demand

PSY 656 - Developing Sport Team Leaders Practicum

Credit Hours: 2

Complementing PSY 649 Developing Sport Team Leadership, this course provides a 2-credit option for students to document the application of a leadership development plan on a sport team. This course reinforces the value of leadership and leadership development on sport teams by helping to make "team leadership" a core team value. Advancing this objective, students learn to align the values of sport teams with the broader values of educational institutions. Students taking this course must provide evidence that they have permission to implement a leadership development program on an organized sport team prior to enrolling in the class (hours the student spends with the team must exceed 90 hours). May be taught concurrently with PSY 556. Cannot receive credit for both PSY 556 and PSY 656.

Prerequisite: PSY 649 or concurrent enrollment.

Lecture Contact Hours: 2

Typically Offered: Demand

PSY 657 - Forensic Psychology: Child Abuse and the Law

Credit Hours: 3

Study of the legal issues related to child abuse and exploitation. Students will gain an understanding of the law pertaining to child cases and how interactions with children can bolster or diminish the quality of children's memory report as seen by the judicial system. The Greene County Prosecutor's Office will participate in the design of this course, thus the specific legal issues discussed will remain current and may change based on the needs of the community. May be taught concurrently with PSY 557. Cannot receive credit for both PSY 557 and PSY 657. Identical with CRM 657. Cannot receive credit for both CRM 657 and PSY 657.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

PSY 669 - Psychological Effects of Dementia

Credit Hours: 4

Description of dementias, with particular references to Alzheimer's Disease and with emphasis on behavioral consequences for both patient and caregiver. Directed practicum. May be taught concurrently with PSY 565. Cannot receive credit for both PSY 565 and PSY 669.

Recommended Prerequisite: PSY 121 and PSY 370.

Lecture Contact Hours: 2 **Lab Contact Hours:** 4

Typically Offered: Demand

PSY 695 - Specialized Topics in Psychology

Credit Hours: 1-3

Specialized investigation into selected topics in psychology. Graduate students will be required to complete an extra project to be determined by the instructor. Variable content course. May be repeated to a maximum of nine hours if topic is different. May be taught concurrently with PSY 597. Cannot receive credit for both PSY 597 and PSY 685.

Recommended Prerequisite: 9 hours of Psychology.

Typically Offered: Demand

PSY 700 - Problems of Psychology

Credit Hours: 1-3

Individual investigation into a problem or problems of concern to the student and deemed of significance by the instructor. Written report required.

Typically Offered: Demand

PSY 701 - Symposium in Psychology

Credit Hours: 1-3

Specific topics selected to introduce graduate students to research and theory. May be repeated to a maximum of six hours.

Typically Offered: Demand

PSY 703 - Human Growth and Development

Credit Hours: 3

Depth investigation of growth and development during elementary school years. Experimental evidence and clinical evaluations used to supplement consideration of major theories of development.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 705 - Psychology of Adolescence

Credit Hours: 3

Depth investigation of growth and development during the adolescent period. Experimental evidence and clinical evaluation used to supplement consideration of major theories of adolescence.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 707 - Psychology of the Adult

Credit Hours: 3

Development of intellectual functions, personality, and social psychological processes across the adult life span will be emphasized. Normal as well as abnormal phenomena unique to young, middle-aged, and elderly adults will also be considered.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 708 - Memory

Credit Hours: 3

Provides in-depth analyses of historical and current theories and associated research in higher mental cognition processing. Primary emphasis is on normal human adult functioning, although associated topics such as cognitive development, learning dysfunctions and skill enhancement will be considered.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 709 - Psychological Evaluation of Pre-School Children

Credit Hours: 3

Program involving both theory and practice in psychological evaluation of pre-school children.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 710 - Psychology of Education

Credit Hours: 3

Orientation to the use of psychology in education.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 711 - Introductory Statistics for Education and Psychology

Credit Hours: 3

Statistical techniques used in education and psychology; overview of scaling techniques, sampling, descriptive techniques,

inferential techniques (to include t and χ^2), reliability and validity.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 716 - Applied Psychology in Human Resource Management

Credit Hours: 3

A survey of the psychological principles, theory, and research related to human resource practices in organizations. Topics include job analysis, performance appraisal and criterion development, EEO compliance, individual differences measurement, selection and validation research.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

PSY 718 - Organizational Psychology

Credit Hours: 3

A survey of the psychological principles, theory, and research related to behavior in organizations. Topics include work motivation, job satisfaction and performance, leadership and group processes, organizational design and development.

Recommended Prerequisite: PSY 121 and PSY 304.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 720 - Individual Intelligence Testing

Credit Hours: 3

Analysis of individual tests of intelligence; Wechsler Scales and the Revised Stanford Binet. Students receive supervised practice in administration, scoring and interpretation of individual tests.

Prerequisite: PSY 629 or COU 701.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

PSY 721 - Individual Intelligence Testing II

Credit Hours: 3

Analysis of individual tests of intelligence; Stanford-Binet Fourth Edition and Kaufman Assessment Battery for Children. Students will receive supervised practice in administration, scoring, and interpretation.

Prerequisite: PSY 629 or COU 701.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

PSY 730 - Projective Techniques

Credit Hours: 3

Introduction to theory of and basic underlying projective methods.

Prerequisite: COU 701 and PSY 720.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 740 - Psychological Assessment

Credit Hours: 3

Students of clinical psychology will be introduced to the process of psychological diagnosis. They will be expected to master the administration, scoring, and interpretation of individual instruments and become acquainted with the foundations and theory and research on which they rest. In addition the course will emphasize the differential applicability of tests and assessment techniques to a wide range of referral problems and the principles of clinical inference that may be used to interpret, integrate, and communicate their diagnostic findings.

Prerequisite: admission to MS in Psychology program.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 742 - Practicum in Psychological Assessment

Credit Hours: 3

Supervised experience in assessment, diagnoses and report-writing with clients at a community mental health facility. Site arrangements must be made by the Practicum Coordinator during the preceding semester. Consists of a one-hour seminar on campus and four hours at the practicum site each week. May be repeated and a minimum grade of B must be maintained.

Prerequisite: PSY 740 and PSY 750 and permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

PSY 745 - Statistics and Research Design

Credit Hours: 3

Use of the Analysis of Variance (ANOVA) Models and Multivariate Analysis in the design and analysis of psychological experiments.

Recommended Prerequisite: introductory statistics course from PSY 200, 611; AGR 330; ECO 308; MTH 340; QBA 237; REC 328; SOC 220; or equivalent.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

PSY 747 - Single Subject Research Design in Applied Behavior Analysis

Credit Hours: 3

Provides instruction in the use of single subject design research methods, in both experimental and applied settings. Instruction provided in behavioral measurement via direct and indirect observation, the employment of group and individual (single-subject) time series designs, statistical approaches for within-group and single-subject design data analysis and interpretation, and use of data to evaluate interventions. The course also considers professional issues in the ethical conduct of research and practice.

Prerequisite: admission to Behavior Analysis and Therapy program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 750 - Advanced Survey of Psychology

Credit Hours: 3

Reinforce breadth of knowledge of psychology in the areas of Biological bases of behavior, Sensation and Perception, Memory, Cognition, Motivation, Development and Social Psychology.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 751 - Seminar in Methods of Research

Credit Hours: 3

Investigation of research methods employed in education and psychology.

Prerequisite: PSY 710 and PSY 711.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 752 - Research Methods

Credit Hours: 3

Provides an understanding of the research methods employed in experimental and applied settings. Includes ethical considerations.

Prerequisite: PSY 745.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 753 - Program Evaluation

Credit Hours: 3

The application of research methods to the evaluation of programs and planned change interventions in organizations.

Prerequisite: PSY 745.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 757 - Observational Methods and Functional Assessment

Credit Hours: 3

Current research and best practices in the area of behavioral assessment. Topics include behavioral definitions, observational recording techniques, data analysis, functional and stimulus preference assessment methods, and issues of validity and reliability of measurement.

Prerequisite: admission to Behavior Analysis and Therapy program or permission of instructor.

Recommended Prerequisite: PSY 614.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 759 - Teaching of Psychology

Credit Hours: 1

Must be taken prior to or concurrent with first teaching of any regular or laboratory section of any course. Preparation for teaching college courses, includes development of personal philosophies of teaching; suggestions for active student learning; maintaining student motivation; preparing assignments, in-class presentations, and exams; grading; and classroom management. Designed to help graduate students prepare for their first independent college teaching experiences.

Lecture Contact Hours: 1

Typically Offered: Demand

PSY 760 - Clinical Communication Skills

Credit Hours: 3

Introduction to the nature of the helping process with emphasis on strategies of behavior change, interpersonal communication, and development of basic helping skills.

Prerequisite: admission to MS in Psychology program.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 761 - Ethical and Professional Issues

Credit Hours: 3

An exploration of ethical issues, including values, professional responsibilities, and professional ethics codes. Issues are explored both from ethical and legal perspectives. Current professional issues, such as changing modes of assessment and intervention, are examined.

Prerequisite: admission to MS in Psychology or Applied Behavior Analysis program.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 764 - Group Psychotherapy**Credit Hours:** 3

An extensive analysis of the factors contributing to the development and maintenance of therapeutic groups in a variety of settings. The prevention and education uses of small groups and small group processes will be included.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 765 - Psychotherapy and Counseling: Theories and Techniques**Credit Hours:** 3

Investigation of the major theoretical approaches and strategies of psychotherapy and counseling along with the techniques associated with each theory. Emphasis on theoretical bases and critical analysis of comparative research.

Prerequisite: admission to MS in Psychology program.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 766 - Psychopathology**Credit Hours:** 3

Focus is on the differential diagnosis of psychological disorders, the appropriate use of current diagnostic systems, and relevant research.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 767 - Behavior Disorders of Childhood**Credit Hours:** 3

Course focuses on assessment and treatment of common childhood behavior disorders. The course emphasizes 1) the study of

biological, behavioral, cognitive, and systemic variables in the development of childhood behavior disorders; 2) training in multi-axial diagnostic assessment; and 3) interventions.

Prerequisite: PSY 766.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 768 - Personality and Social Development

Credit Hours: 3

A survey of the major theoretical and practical issues in the study of personality and social development. The course will focus on application of personality to universal human concerns.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 770 - Behavioral Systems Analysis

Credit Hours: 3

Behavioral Systems Analysis (BSA) comes from a synthesis of the fields of behavior analysis and systems analysis and can be defined as the analysis of behavior that occurs in complex and organized social environments. This course will cover applications of BSA in order to promote behavioral solutions to socially significant practices within large social units like organizations and cultures. Applications will focus on settings such as organizations and the culture more broadly from a functional contextual perspective.

Prerequisite: admission to Behavior Analysis and Therapy program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall Even

PSY 771 - Occupational Health Psychology

Credit Hours: 3

An in-depth consideration of the psychological principles, theory, research, applications and problems associated with occupational stress, safety and health. Topics include personal, organizational, work-related and social antecedents to stress, as well as the short-term and long-term responses to stress.

Prerequisite: PSY 718.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 772 - Performance Assessment

Credit Hours: 3

An in-depth consideration of theory, research, applications and problems of performance assessment in organizations. Topics

include criterion development and validation, models of effectiveness, performance appraisal, methods and sources of evaluation, performance feedback, team performance measurement, and biases in assessment.

Prerequisite: PSY 716 and PSY 745.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 773 - Human Factors

Credit Hours: 3

Provides an introduction to human factors engineering (ergonomics) primarily in the workplace. Involves emphasis on analyzing job requirements, human capabilities, human-machine interactions, and safety.

Prerequisite: PSY 751.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 774 - Training and Development

Credit Hours: 3

An in-depth consideration of theory, research, applications, and problems in the design, conduct and evaluation of training programs in organizational settings. Topics include needs assessment, theories of learning and motivation, transfer of training, and evaluation of training processes and outcomes.

Prerequisite: PSY 716 and PSY 718.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 776 - Personnel Selection, Placement and Classification

Credit Hours: 3

An in-depth consideration of the theory, research, applications, and problems in matching of individual needs, preferences, skills and abilities with the needs and preferences of organizations. Topics include job analysis, theories of human performance, test development and use, alternative selection techniques, EEO law, criterion development, and validation of selection decisions.

Prerequisite: PSY 716 and PSY 745.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 777 - Conceptual Foundations of Applied Behavioral Science

Credit Hours: 3

The course addresses the history of behavior analysis, philosophy of science, advanced behavioral principles and processes and their application to various content domains in the behavioral, social, and cognitive sciences (e.g., emotion, language, cognition,

and culture).

Prerequisite: admission to Behavior Analysis and Therapy program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 778 - Group Processes

Credit Hours: 3

An in-depth consideration of theory, research, applications, and problems in group processes in organizations. Topics include models and typologies of group performance, group decision making, group social influence and ecology, leadership, and team staffing and development.

Prerequisite: PSY 718.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 779 - Topics in Industrial-Organizational Psychology

Credit Hours: 3

Advanced study of selected topics in I-O psychology. Course requirements include extensive readings and a paper. May be repeated to a maximum of nine hours if different topics.

Prerequisite: PSY 716 and PSY 718.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 780 - Social Psychology

Credit Hours: 3

Advanced study of interactions and social cognition, including attitude change, person perception, and group dynamics.

Prerequisite: admission to MS in Psychology program.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 796 - Practicum

Credit Hours: 1-6

Offers an opportunity for the graduate student to gain additional training through field experiences in research, clinical or organizational settings. Such experience need not be confined to the campus. Variable content course. May be repeated to a maximum of six hours.

Prerequisite: admission to MS in Psychology or Behavior Analysis and Therapy program.

Typically Offered: Fall, Spring

PSY 797 - Directed Research

Credit Hours: 1-6

Offers an opportunity for the graduate student to gain additional training through guided research. Such research need not be confined to the campus. May be repeated to a maximum of six hours.

Prerequisite: admission to MS in Psychology or Behavior Analysis and Therapy program.

Typically Offered: Fall, Spring

PSY 798 - Internship

Credit Hours: 1-6

Supervised fieldwork in a professional psychology setting. Includes a seminar paper as a requirement.

Prerequisite: PSY 796 and permission.

Typically Offered: Fall, Spring

PSY 799 - Thesis

Credit Hours: 1-6

Independent research and study leading to the completion of the thesis.

Prerequisite: admission to MS in Psychology or Behavior Analysis and Therapy program.

Typically Offered: Demand

PSY 800 - History and Systems: Orientation to Clinical Psychology

Credit Hours: 3

This course is a study of the foundations of the discipline of clinical psychology and the relationship between historical development and current systems and issues within the field. Students will review the growth of the science of psychology, including principal systems, key theoretical debates and developments, and contemporary views on the history of the field. In addition, students will analyze the role the field of psychology has played in creating, perpetuating, and failing to challenge racism, discrimination, and other harms to communities of color and other underrepresented and marginalized groups and consider the current and future efforts to reconcile and repair both past and present inequities in the field.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 801 - Philosophy and Contextual Behavioral Science

Credit Hours: 3

Contextual Behavioral Science is grounded in the root philosophical models of functional contextualism as a contemporary extension of radical behaviorism. This course will explore the importance of philosophy in the science and practice of clinical psychology. Success, in this course, is achieved through successful working (i.e., pragmatic truth criterion) and behavior is examined as the on-going interaction between behavior (i.e., adaptive responses of individuals) and context (i.e., the environment within which behavior occurs). Students will explore functional contextualism within multiple current approaches to assessment and intervention across populations.

Prerequisite: PSY 800; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Summer

PSY 823 - Psychopathology II

Credit Hours: 3

The purpose of this course is to provide students with an advanced understanding of adult and child psychopathology. Students will acquire detailed information related to the major adult and child psychological disorders, with an emphasis on low-prevalence disorders. Students will refine skills in utilizing the current DSM classification system to formulate diagnostic impressions for low-prevalence disorders. By the end of the course students should be able to consume a case study and develop a problem list, formulate diagnostic impressions, and be knowledgeable about the features (i.e., symptoms, course of illness, prognosis, comorbidity, and etiological theories) of a variety of low-prevalence psychological disorders. Additionally, students will consider cultural variables as they relate to differential diagnosis and discuss current and future trends in psychopathology.

Prerequisite: PSY 766; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Summer

PSY 824 - Psychological Assessment II

Credit Hours: 3

This course is designed to provide advanced training in the principles of psychological assessment. Training will be provided in diagnostic assessment using the DSM-5, with an emphasis on personality assessment, symptom-specific assessment tools, neuropsychological assessment tools and case formulation. Students will be expected to master the administration, scoring, and interpretation of individual instruments and become acquainted with the foundations and theory and research on which they rest. In addition, the course will emphasize the differential applicability of tests and assessment techniques to a wide range of referral problems and the principles of clinical inference that may be used to interpret, integrate, and communicate their diagnostic findings. Students will learn how to synthesize data from multiple sources and develop a case formulation.

Prerequisite: PSY 740; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 830 - Diversity and Inclusion in Psychology

Credit Hours: 3

This course is designed to develop an awareness of issues related to diversity and inclusion in the field of psychology and to build a foundation for multicultural competence. Students will explore contemporary theories and research, with an emphasis on how

different cultural groups interact with a single social structure. As well, students will become familiar with the science and practice of multicultural psychology and with a clinical psychology emphasis. Students will gain an appreciation of the experience of oppressed and marginalized groups, with a goal of forming sensitive and informed therapeutic services. By the end of this course, students will be prepared to develop their professional skills in a way that is inclusive and effective given the cultural values, systems, and identities of a wide range of clients.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 831 - Identity Development

Credit Hours: 3

This course will explore identity development and considerations in prevention and treatment research within clinical psychology. Psychology has traditionally adopted a white normative view of intervention (i.e., treatment of disorders) with less attention given to the experiences of diverse populations and the prevention of psychological suffering. Course will explore the shared and diverse experiences of multiple communities on the basis of race, sexual orientation, gender identity, and neurological diversity. Prevention and intervention must consider the unique experiences of groups that have historically been underrepresented in practice and in research.

Prerequisite: PSY 830; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 850 - Empirically Supported Treatment I

Credit Hours: 3

The purpose of this course is to familiarize students with a breadth of empirically supported treatments for psychological disorders, with an emphasis on the delivery of evidence-based interventions for adults. Students will explore various approaches to intervention and consider the theoretical and conceptual foundations of each approach. Students will learn to establish and maintain effective therapeutic relationships and develop evidence-based treatment plans specific to client goals that are informed by current scientific literature, assessment findings, and relevant cultural and contextual variables. As well, students will learn to evaluate intervention effectiveness and adjust treatment plans accordingly.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 851 - Empirically Supported Treatment II

Credit Hours: 3

The purpose of this course is to familiarize students with a breadth of empirically supported treatments for psychological disorders, with an emphasis on the delivery of evidence-based intervention for children and adolescents. Students will explore various approaches to intervention and consider theoretical and conceptual foundations of each approach as well as the specific considerations and challenges present when providing treatment to younger populations. Students will learn to develop evidence-based treatment plans specific to client goals that are informed by current scientific literature, assessment findings, and relevant

cultural and contextual variables. As well, students will learn to evaluate intervention effectiveness and adjust treatment plans accordingly.

Prerequisite: PSY 850; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 890 - Practicum in Clinical Psychology

Credit Hours: 2

This practicum is designed for students to gain additional training through field experiences in clinical and applied settings. The experience is specifically designed to support students in integrating their academic experiences with experiences outside of the classroom, developing clinical skills as well as fulfilling program requirements. Students will receive a Clinical Psychology Doctoral Program handbook that will delineate specific expectations, requirements, and considerations for various practicum placements, and the course will include variable content given the practicum site to which a student is assigned. May be repeated to a maximum of 14 hours to fulfill degree requirements for the Doctor of Psychology program.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Typically Offered: Demand

PSY 905 - Biological Basis of Behavior

Credit Hours: 3

This course aims to provide an exposition of research and theory in the biological bases of normal and abnormal behavior with an introduction to psychopharmacology. A survey of literature will span from nerve cells, the organization and functioning of the nervous system, to the neurobiological systems and interventions that target sensation, motor behavior, emotion, cognition, self-other representation, and social behavior. Course will also integrate understanding of altered behavioral processes of brain-damaged and psychiatric patients with knowledge of basic neuronal and neurobiological processes.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 906 - Advanced Cognitive and Affective Psychology

Credit Hours: 3

This course explores the nature of human intellectual functioning, the cognitive basis of behavior and the research methods utilized. Topics pertaining to basic research and theory in cognition include the historical development of the empirical study of cognitive psychology, as well as how basic and complex mental processes contribute to human behavior. Topics discussed include the domains of perception, attention, memory, decision making, and language. This course also explores emotion and affective processing within the context of cognitive models and theory. Topics include basic emotions, emotion, consciousness and the brain, emotion and attention, emotion and memory, as well as prospective emotions and future directions.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Summer

PSY 913 - Program Evaluation and Qualitative Analysis

Credit Hours: 3

An overview and in-class practice of qualitative research methods including in-depth interviewing, focus groups, naturalistic observation, content analysis, and thematic analysis of textual information. The course will use a combination of didactic, interactive, and applied techniques to teach knowledge and skills relevant to qualitative research. Through the course, students will be expected to conduct their own qualitative study and/or qualitative program evaluation.

Prerequisite: PSY 752; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 932 - Culturally Competent Therapy

Credit Hours: 3

This course is designed to develop students' multicultural competence in the practice of clinical psychology. Students will obtain a thorough review of multicultural competencies related to the practice of psychology. Students will be asked to thoroughly consider the intersectionality of clients' cultural identities (in terms of ethnicity, race, age, ability, religion, gender, sexual orientation, etc.) in forming sensitive and informed therapeutic services. In addition, students will consider how their own cultural identity informs their behavior as a professional. This course will include discussion both of the limitations of traditional assessment and therapeutic approaches and of how consideration of multicultural competencies can improve these services.

Prerequisite: PSY 830 and PSY 831; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 941 - Supervision, Consultation, and Professional Practice

Credit Hours: 3

This course will examine the psychological principles and knowledge base underlying the major models and theories of individual, organizational consultation, and supervision, with an emphasis on two modes of service-related work that psychologists may be expected to participate in as professionals: consultation and clinical supervision. Within the context of consultation, students will develop knowledge and skills related to the construction, dissemination, and implementation of specialized programming offered to small (e.g. individual clients) and large (e.g. organizational) systems. Secondly, this course is designed to introduce developing clinicians to the process of supervision. Students will be introduced to and exposed to a number of theories, techniques, and processes that will help them become more effective supervisors. In addition, a number of additional topics relevant to professional practice will be addressed throughout the course.

Prerequisite: PSY 760 and PSY 761 and PSY 800; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

PSY 942 - Professional Seminar in Clinical Psychology

Credit Hours: 3

Professional seminars will provide in-depth inquiries into selected and variable topics relevant to the professional practice of clinical psychology. Seminar topics will be developed and provided based on current trends/needs within the field of psychology and the expertise of course instructors, and students may repeat this course for a maximum of five credit hours if the topic of each is different. Topics of professional seminars may include, but are not limited to: Grief Studies, LGBTQIA Community Topics, Business and Licensure, Psychopharmacology, Forensic Psychology, Prevention, Telehealth, and "Specialty" Courses in Assessment and Treatment (e.g., Process-Based Therapy, Neuropsychological Assessment).

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 952 - Couples and Family Therapy

Credit Hours: 3

This course provides an exploration of select, major treatment approaches utilized in couples, marriage, and family therapy. The primary focus of this course will be the development of applied skills and techniques utilized in the treatment of couples and groups, including formulating hypotheses about couple and family structure and process, developing treatment goals for couples and families, and designing and practicing therapeutic and empirically supported interventions with pairs or groups of individuals. Students will be prepared to identify and respond to culturally sensitive issues and ethical issues that may arise during the treatment process.

Prerequisite: PSY 850 and PSY 851; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 953 - Advanced Clinical Case Conceptualization

Credit Hours: 3

The purpose of this course is to develop advanced clinical case conceptualizations that integrate material covered throughout all previous courses and practicum experiences. The first part of the course will focus on clinical diagnosis and idiographic assessment to guide clinicians towards identifying effective processes of change. The assessment process emphasizes multicultural perspectives and moving beyond normalization. The second part of the course will focus on process-based intervention approaches that address process of change targets to achieve valued outcomes in the lives of clients. The final part of the course will focus on integrating analytic methods throughout assessment and treatment to ensure target outcomes are achieved with clients and can be conveyed to stakeholders and advocates of change.

Prerequisite: PSY 850 and PSY 851 and PSY 952; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

PSY 962 - Behavioral Theories of Language and Cognition

Credit Hours: 3

This course will explore contemporary advances in behavioral theories of language and cognition as a centralizing framework for what it means to be human - with implications for assessment, prevention, and treatment. The course will primarily explore topics in stimulus equivalence and relational frame theory, as well as more advanced concepts like hyperdimensional and multilevel

modelling and relational density theory. The course will emphasize hands-on learning and applications in psychological and behavioral treatment.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 970 - Healing Historical Oppression: Context, Identity, and Intersectionality

Credit Hours: 3

This course highlights and pays tribute to the intellectual tradition of radical scholars, activists, and practitioners that laid the foundation for the study of healing of historical oppression. Rather than reducing the roots of oppression to individual-level phenomena, course will consider the extent to which individual experience exists in a dynamic relationship with oppressive structures of the everyday worlds that people inhabit. Course will examine various critical perspectives (within and outside the discipline) that may more adequately respond to interests of broad human liberation. Course includes foundational texts, emerging frameworks, multimedia links, and proposed assignments designed to encourage a deeper and revolutionary exploration of radical healing in psychological theory, research, practice, and action.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 971 - Mental Health Disparities: Eliminating Barriers to Treatment

Credit Hours: 3

This course will introduce students to the concept of mental health equity and will provide a broad overview of mental health disparities in the United States. The course will examine relevant historical issues, theories, and empirical data, emphasizing critical theory and application of knowledge. Through readings, films, and class discussion course will trace the history of concepts related to race, gender, sex, and disability as they relate to mental health access. Course will highlight these cultural constructions and how they are incorporated into our systems of law and governance, and course will examine how cultural constructions lead to disparities in exposure to health hazards, and diagnosis and treatment of mental illness.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 972 - Governance, Law, and Policy: Advocacy and Activism in Clinical Psychology

Credit Hours: 3

This course is designed to give students a working knowledge of the legislative practice, specifically at the state level, with implications for addressing issues related to diversity and mental health disparities. Students learn how national and regional contexts shape political cultures, governing institutions, stakeholders, and strategies, and will develop tools to inform and influence policymaking given these differences. The course also covers conceptual and analytic frameworks for understanding political processes, institutions, stakeholders, contexts, and decision making. In addition, the course builds written and verbal communication skills, emphasizing the ability to convey clear and concise positions and to make requests related to public advocacy and activism

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 973 - Multicultural Foundations in Practice: Assessment, Treatment, and Consultation

Credit Hours: 3

The purpose of this course is to explore multicultural foundations that relate to assessment, treatment, and consultation within clinical psychology. This class promotes an understanding and appreciation of cultural and ethnic differences among individuals, groups, and families and the impact of such differences on the theory and clinical practice of psychology. Activities within the course are designed to enhance students' abilities to apply their knowledge in the area of multicultural perspectives to their personal lives and professional work. Culture will be defined broadly to address ethnicity (including national origin), religion, gender, socioeconomic status, age, sexual orientation, and persons with disabilities.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 980 - Clinical Health Psychology

Credit Hours: 3

The purpose of this course is to introduce the principles of clinical health psychology. The course will be divided into two primary sections: health promotion and disease prevention and chronic disease management. In the area of health promotion and disease prevention, students will explore health behaviors, stress and coping, and moderators of the stress response. In the area of chronic disease management, there will be an emphasis on healthcare and policy, the psychosocial aspects of coping with illness and a focus on cancer, cardiovascular disease, diabetes, pain, and grief/life-limiting illness. Students will be prepared to continue studies within the area of integrated healthcare, work on multidisciplinary teams to support health and well-being, and engage in the area of public health policy.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 981 - Integrated Healthcare: Advanced Topics

Credit Hours: 3

This course is designed to provide an overview of the etiology, diagnosis, and treatment of illnesses and disorders commonly treated within an integrated healthcare system. Students will consider treatment from a multidisciplinary team-based approach that includes psychological, cognitive, and physiological processes, as well as the ethical and cultural considerations relevant to work in this area. Diagnoses and disorders including, but not limited to chronic pain, eating disorders, and substance use will be explored throughout this course. Students will be prepared to work in an integrated healthcare setting by developing a holistic understanding of the psychological and biological variables relevant to the various illnesses and disorders included.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 983 - Consultation and Collaboration in Healthcare

Credit Hours: 3

This course will provide an overview of consultation and collaboration theory and process in the field of clinical psychology. Students will gain a foundation for facilitating change in human systems, as well as consultation with within integrated healthcare settings. This course will utilize reading from the required textbook, journal articles and other selected publications, lectures, discussion, and various activities to help students learn and apply the basics of consultation and collaboration to professional practice. Consultation models will be developed with an intentional view toward addressing mental health disparities and promoting equity and social justice in systems.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 990 - Internship in Clinical Psychology

Credit Hours: 3

Doctoral-level clinical training will culminate in the Clinical Internship during students' final year. This advanced training experience will include direct assessment and intervention clinical hours, extensive advanced supervision, and didactics. Students will be challenged to further develop their clinical skills, advance their practical learning through experience, and expand their qualifications. Students will receive a Doctor of Psychology program handbook that will delineate specific expectations and requirements as well as describe the process through which students will apply for, obtain, and complete their internship experience and the course will include variable content given the internship site to which a student is accepted. May be repeated to a maximum of nine hours to fulfill degree requirements for the Doctor of Psychology program.

Prerequisite: 14 hours of PSY 890; and admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

PSY 999 - Dissertation in Clinical Psychology

Credit Hours: 3

The dissertation represents one of the culminating experiences of clinical psychology doctorate students. The purpose of the dissertation is to provide each student with the opportunity to conduct research at a level that conveys mastery of the scientific method within clinical practice (i.e., scientist-practitioner). The specific requirements for completion of the dissertation are described in the Doctor of Psychology program handbook. The topic, methods, and analytic strategy will be developed in conjunction with a faculty dissertation advisor and the final document will be defended to a selected faculty committee members from within and outside of the university. May be repeated to a maximum of nine hours to fulfill degree requirements for the Doctor of Psychology program.

Prerequisite: admission to Doctor of Psychology program or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

Physical Therapy

PTE 707 - Medical Human Anatomy

Credit Hours: 6

This course offers an in-depth coverage of basic, applied, and clinical aspects of gross anatomy. Students observe, discuss, teach, learn, and dissect all body systems in detail. This course incorporates traditional didactic lectures, discussions, laboratory dissection, students teaching students in laboratory teaching sessions, and assignments that rely on critical thinking. Course will include on-site and blended components to facilitate integration of content and principles related to physical therapy.

Prerequisite: admission to the program or permission of the department head of Physical Therapy.

Lecture Contact Hours: 3 **Lab Contact Hours:** 9

Typically Offered: Summer

PTE 710 - Introduction to Physical Therapy

Credit Hours: 3

This course provides an overview of physical therapy, including the history of physical therapy and the APTA, and the physical therapist's professional responsibilities. This information is combined with the acquisition of skills and knowledge necessary to be successful in managing patients. The topics that are discussed in Professional Issues I, e.g., Code of Ethics, the Guidelines for Physical Therapy Documentation, and the Guidelines for Professional Conduct, are "transformed" into practical skills that are necessary to professionally interact with patients. Hence this course combines these concepts with the skills necessary to provide patient care. These skills include the assessment of vital signs, basic measurement techniques, examination of the body, ensuring patient safety, infection control, using proper body mechanics, using appropriate transfers, gait training, and basic documentation, and patient and family education. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: admission to the program.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Fall

PTE 711 - Professional Issues I

Credit Hours: 2

This course provides an overview of physical therapy and the physical therapist's professional responsibilities. Information regarding the Code of Ethics, the Guidelines for Physical Therapy Documentation, and the Guide for Professional Conduct are essential components of this course. This course focuses on the psychological and social aspects of communication in health care and providing care and services to patients. This includes patients' rights, the psychological impact of illness, social considerations such as gender, race, culture and ethnicity. These concepts are integrated using case studies of various patient-therapist situations.

Prerequisite: admission to the program.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Summer

PTE 712 - Clinical Biomechanics for Physical Therapy

Credit Hours: 2

This course provides the basis for understanding human movement. Content includes study of the mechanical properties of musculoskeletal tissues (bone, muscle, cartilage, ligament and tendon). It also includes foundations to understand the physics of human movement (forces and moments, joint lever types, understanding joint forces through two-dimensional vector problems and static equilibrium equations). It also includes the study of the movement, muscle function, and dynamics of upper and lower limbs. Students study interactions in structure and neuromuscular control of the limbs as they relate to understanding normal and abnormal human movement. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 2

Typically Offered: Summer

PTE 713 - Embryology

Credit Hours: 1

In this course students will examine how prenatal development explains structures and functions of the human body. This course describes the major features of embryology, maturation of the fetus, changes that occur during pregnancy and childbirth. Included in this course will be discussions of birth defects and the potential cause of these defects. This course will cover the major systems of interest to physical therapy such as musculoskeletal system, cardiopulmonary system and neurological systems.

Prerequisite: admission to the program.

Lecture Contact Hours: 1

Typically Offered: Summer

PTE 714 - Imaging Analysis in Physical Therapy Practice

Credit Hours: 2

This course emphasizes the analysis and interpretation of diagnostic images of patients with a variety of impairments or dysfunctions of the musculoskeletal, cardiopulmonary, nervous, and circulatory systems as they apply to contemporary physical therapy practice. Various imaging techniques will be incorporated into case studies which will be used to emphasize incorporation of image findings into the process of patient management. Case studies, laboratory experience, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 1

Typically Offered: Spring

PTE 720 - Neuroanatomy-Neuroscience

Credit Hours: 4

This course describes the gross anatomy and applied function of the central and peripheral nervous systems. Normal anatomy and function is compared and contrasted with abnormal anatomy and function due to disease or injury.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 3 Lab Contact Hours: 3

Typically Offered: Fall

PTE 721 - Professional Issues II**Credit Hours: 2**

This course focuses on employment settings, legal issues regarding Physical Therapist Assistants, the structure of the American Physical Therapy Association, regulations, policies, practice acts, federal legislation, and direct access to patients. Additionally, this course focuses on the legal aspects of professional life including basic elements of contract law, criminal law, educational law, employment law, insurance law, and business law. Students continue to develop an Individual Clinical Internship Plan with specific goals and objectives and select clinical sites for Clinical Internship I - II. Case studies and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2

Typically Offered: Spring

PTE 722 - Physical Agent and Mechanical Modalities**Credit Hours: 2**

This course describes thermal modalities (diathermy, therapeutic heat and cold, therapeutic ultrasound, low-power lasers, ultraviolet therapy) and mechanical modalities (spinal traction, intermittent compression devices, continuous passive movement devices, therapeutic soft tissue mobilization, and massage). In addition, the underlying scientific principles and clinical uses of physical agents and mechanical modalities are described. Case studies, laboratory experience, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 Lab Contact Hours: 3

Typically Offered: Spring

PTE 723 - Patient Management: Musculoskeletal I**Credit Hours: 4**

This course emphasizes the management of patients with musculoskeletal dysfunctions of the appendicular and axial skeleton. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included, stressing the integration of knowledge and skills. Treatment techniques include (but are not limited to) the use of soft tissue mobilization, myofascial release, therapeutic exercise, and basic joint mobilization. Case studies, laboratory experience, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Fall

PTE 726 - Clinical Kinesiology for Physical Therapy

Credit Hours: 2

This course provides the basis for understanding human movement and is a continuation of Clinical Biomechanics of Physical Therapy. Content includes study of movement, muscle function and dynamics of the axial body (craniomandibular complex, spinal column, neck, trunk, and pelvis). Content also includes basic principles of neuromuscular control, especially in the context of human functions which integrate multiple body segments, namely posture and gait, applied to normal and pathological conditions. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Fall

PTE 730 - Motor Control/Motor Learning

Credit Hours: 2

In this course students will examine the framework necessary to apply current theory and research on motor control and motor learning to the practice of physical therapy. This course extends the information covered in Neuroanatomy - Neuroscience by discussing the neurophysiological basis of motor control and motor learning. Through the use of case studies and integrative experiences, students will apply principles of motor control, motor learning, and motor development to treat postural and mobility dysfunctions. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2

Typically Offered: Spring

PTE 731 - Pathophysiology/Differential Diagnosis I

Credit Hours: 2

This course is the first in a series of three courses where students will develop the skills to formulate differential diagnoses, identify patients who are appropriate for physical therapy intervention, identify red flags, understand common pharmacological interventions and their effects on physical therapy treatment, and appropriately refer patients who have pathological conditions outside the physical therapy scope of practice. Case studies/clinical vignettes are incorporated to integrate concepts from other patient management courses with emphasis on understanding pathophysiology and the development of differential diagnostic skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 1

Typically Offered: Fall

PTE 732 - Electrotherapeutic Modalities and Clinical Electrophysiology

Credit Hours: 2

This course describes electrotherapeutic modalities and clinical electrophysiologic testing. In addition, the underlying scientific principles and clinical uses and application of electrotherapeutic modalities and clinical electrophysiologic testing are incorporated. Major topics in this course include: electrical stimulation of muscle, electrical stimulation to control posture and movement (FES/NMES), electrical stimulation to control pain, electrical stimulation to promote tissue healing, iontophoresis, electroneuromyography, EMG, NCV, and biofeedback. Case studies, laboratory experience, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Summer

PTE 733 - Patient Management: Musculoskeletal II

Credit Hours: 3

This course builds on the knowledge and skills acquired in Patient Management: Musculoskeletal I. This course emphasizes the management of patients with musculoskeletal dysfunctions of the appendicular and axial skeleton. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included, stressing the integration of knowledge and skills. Treatment techniques include (but are not limited to) the use of soft tissue mobilization, myofascial release, therapeutic exercise, and basic joint mobilization. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Spring

PTE 737 - Clinical Internship I

Credit Hours: 4

This course provides an introduction to the clinical education component of the curriculum, as well as a four week, full-time clinical internship. Learning styles will be discussed, as well as how clinically-based learning may differ from classroom or laboratory experiences. Students will continue to develop their clinical internship plan and specific goals and objectives for this Clinical Internship. Students will complete a case study or present an "in-service" while on the four week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Summer

PTE 740 - Essentials of Research Methods

Credit Hours: 2

This course serves as an introduction to research methodology in the context of health and human services. The specific aim of this course is to help students understand and grasp the relations between the research question, design, and method(s), and the

data/theoretical interpretations. The material will be presented in a matter to strike a balance between fundamental, technical, and methodological activity to scientific and clinical research. Identical with OTE 731 , PAS 777 , and RCH 720 . Can only receive credit for one of the following: PTE 740, OTE 731 , PAS 777 , RCH 720 .

Lecture Contact Hours: 2

Typically Offered: Fall

PTE 741 - Pathophysiology/Differential Diagnosis II

Credit Hours: 2

This course is the second in a series of three courses, and builds on PTE 731, continuing to focus on the development of skills to formulate differential diagnoses, identify patients who are appropriate for physical therapy intervention, identify red flags, understand common pharmacological interventions and their effects on physical therapy treatment, and appropriately refer patients who have pathophysiological conditions outside the physical therapy scope of practice. Case studies/clinical vignettes are incorporated to integrate concepts from patient management courses with emphasis on understanding pathophysiology and the development of differential diagnostic skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 1

Typically Offered: Spring

PTE 742 - Patient Management: Persistent Pain

Credit Hours: 2

This course builds on the knowledge and skills acquired in Patient Management: Musculoskeletal I. This course emphasizes the management of patients with persistent pain. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included, stressing the integration of knowledge and skills including patient/therapist communication/interaction. Treatment techniques include (but are not limited to) the use of soft tissue mobilization, myofascial release, therapeutic exercise, basic joint and neuro mobilization, pain neuroscience education, graded exposure (graded motor imagery, mirror therapy, 2-point discrimination/graphesthesia training) and motivational communication. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: enrollment in the program and successful completion of all prior course work therein or permission of department head.

Lecture Contact Hours: 2

Typically Offered: Spring

PTE 743 - Patient Management: Neuromuscular I

Credit Hours: 4

This course emphasizes the management of patients (children and adults) who have neurological diagnoses. Specific pathologies to be discussed include balance and vestibular disorders, disorders of the spinal cord, genetic disorders, and neuromuscular disease. Case studies, laboratory experiences, and integrative experiences are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 3 **Lab Contact Hours:** 3

Typically Offered: Spring

PTE 744 - Patient Management: Cardiovascular and Pulmonary Problems

Credit Hours: 3

This course presents an overview of cardiac, vascular, and pulmonary physical therapy. It integrates foundational information such as anatomy, physiology, exercise physiology, embryology, histology, pharmacology, pathology, and pathophysiology into a meaningful basis on which patient management strategies are based. This course introduces the student to cardiovascular and pulmonary assessments, interventions, and outcome analyses. The course includes information specific to pediatric, adolescent, adult, and geriatric patients.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Spring

PTE 747 - Clinical Internship II

Credit Hours: 6

This course provides for continuing development of clinical skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for Clinical Internship II. Students will complete a case study or present an "in- service" while on the six week internship write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Fall

PTE 750 - Research and Outcome Analysis

Credit Hours: 2

This course serves an introduction to statistical concepts in the context of health and human services. Emphasis will be on developing an understanding of these concepts and applying them to the student's specific educational field. Students also will be introduced to appropriate statistics-related software packages. Identical with RCH 700 . Can only receive credit for one of the following: PTE 750 or RCH 700 .

Lecture Contact Hours: 2

Typically Offered: Spring

PTE 753 - Patient Management: Neuromuscular II

Credit Hours: 2

This course is an extension of Patient Management: Neuromuscular I. This course emphasizes the management of patients (children and adults) who have neurological diagnoses including cerebral palsy and cerebrovascular accidents. Case studies,

laboratory experiences, and integrative experiences may be used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Summer

PTE 754 - Patient Management: Special Considerations Across the Life Span

Credit Hours: 3

In this course students will review biological, psychological, and sociocultural processes of maturation and aging of human beings applicable to the practice of physical therapy. Through case studies, laboratory experiences, and integrative experiences, students will compare and contrast the maturation and aging process of individuals with and without disabilities; will understand how health, fitness, and physical activity contribute to quality of life; and will apply principles learned to the examination, evaluation, and treatment of individuals of all ages.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 **Lab Contact Hours:** 1

Typically Offered: Spring

PTE 756 - Patient Management: Integumentary

Credit Hours: 2

This course integrates and builds upon information provided in prior course work. Specific topics include the prevention of skin disorders, management of closed and open wounds, lymphedema, and the use of specific interventions to facilitate wound repair and overall skin health.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 **Lab Contact Hours:** 3

Typically Offered: Summer

PTE 757 - Clinical Internship III

Credit Hours: 6

This course provides for clinical practice of developing skills in the form of a six week, full-time clinical internship. Students will continue to develop their clinical internship plan and specific goals and objectives for Clinical Internship III. Students will complete a case study or present an "in-service" while on the six week internship, write a short, reflective paper, and meet the requirements established by the program and the clinical facility.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Spring

PTE 760 - Management of Research Projects

Credit Hours: 1

Application of the research process via supervised study of a selected problem culminating in completion of an extensive scholarly product. Variable content course. Course must be repeated for a total of 6-12 hours. Graded Pass/Not Pass only.

Prerequisite: admission to the program.

Lab Contact Hours: 1

Typically Offered: Fall, Spring, Summer

PTE 761 - Contemporary Issues in Professional Practice**Credit Hours: 1**

This course focuses on some of the more specialized areas of physical therapy and emerging topics in rehabilitation. Alternative and holistic therapies are discussed, as well as their relationship and integration with patient rehabilitation. Case studies, laboratory experience, and integrative experiences may be used to emphasize the process of patient management.

Prerequisite: admission to the program and successful completion of all prior course work therein.

Lab Contact Hours: 2

Typically Offered: Summer

PTE 762 - Pathophysiology/Differential Diagnosis III**Credit Hours: 2**

This course is the third in a series of three courses, building on PTE 731 and PTE 741, and continuing to focus on the development of skills to formulate differential diagnoses, identify patients who are appropriate for physical therapy intervention, identify red flags, understand common pharmacological interventions and their effects on physical therapy treatment, and appropriately refer patients who have pathophysiological conditions outside the physical therapy scope of practice. Case studies/clinical vignettes are incorporated to integrate concepts from other patient management courses with emphasis on understanding pathophysiology and the development of differential diagnostic skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 Lab Contact Hours: 1

Typically Offered: Summer

PTE 763 - Patient Management: Neuromuscular III**Credit Hours: 3**

This course is an extension of Patient Management: Neuromuscular 1 and II. This course emphasizes the management of patients (children and adults) who have neurological diagnoses including cognitive disorders, encephalopathies, multiple sclerosis, Parkinson disease, and brain injuries. Case studies, laboratory experiences, and integrative experiences may be used to emphasize the process of patient management. General and specific examination and treatment techniques are included stressing the integration of knowledge and skills.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 Lab Contact Hours: 3

Typically Offered: Fall

PTE 764 - Patient Management: Exercise Physiology, Nutrition, and Wellness

Credit Hours: 3

This course describes the effects of physical activity on human performance across the life span. The effects of exercise (or lack thereof) are considered for each system in the body. Strategies for improving physical performance in a variety of settings are considered, as well as fundamental principles of good health in relation to exercise.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 **Lab Contact Hours:** 3

Typically Offered: Fall

PTE 765 - The Physical Therapist as Educator

Credit Hours: 1

This course focuses on educational theories and methodology relevant to the physical therapist in a variety of physical therapy settings. These topics are discussed in the context of promoting optimal health, preventing injury and illness, and promoting wellness. Upon completion of this course, the student will be able to utilize educational concepts and theories in the design, implementation, and evaluation of learning experiences used in the education of the community, industry, patients, families, students, colleagues, and self.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1

Typically Offered: Summer

PTE 767 - Health Care Systems and the Physical Therapist

Credit Hours: 1

This course is an introduction to the various health care delivery systems in the United States, and provides a synopsis of the health care systems found in countries other than the United States. This course allows students to explore the provision of physical therapy services within the constraints of the existing health care systems, and to identify community needs, and resources.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1

Typically Offered: Summer

PTE 773 - Patient Management: Musculoskeletal III

Credit Hours: 2

This course builds on the knowledge and skills acquired in Patient Management: Musculoskeletal 1 and II. This course emphasizes the management of patients with musculoskeletal dysfunctions of the appendicular and axial skeleton. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis

of functional outcomes, and re-assessment. Sophisticated examination and manual mobilization techniques are covered in detail.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 Lab Contact Hours: 3

Typically Offered: Summer

PTE 782 - Patient Management: Pelvic Floor

Credit Hours: 2

This course will introduce topics of physical therapy management of male and female pelvic floor dysfunction, including but not limited to; pelvic floor anatomy, urinary and fecal incontinence, pregnancy and postpartum, gynecological oncology, gynecological dysfunction, pelvic floor issues related to the female athlete, and the female lifespan.

Prerequisite: be in good standing in the Physical Therapy program or permission of department head.

Lecture Contact Hours: 1 Lab Contact Hours: 1

Typically Offered: Fall

PTE 785 - Histology and Tissue Biology

Credit Hours: 1-2

Course emphasizes the structure and basic function of all the major tissues and cell types in the human body. Includes normal cell and tissue morphology and the adaptations that occur as a result of various stimuli both normal and abnormal. Variable content course. May be repeated to a maximum of six hours.

Prerequisite: enrollment in the program and successful completion of all prior course work therein, and permission of instructor.

Typically Offered: Demand

PTE 792 - Patient Management: Vestibular Rehabilitation

Credit Hours: 2

This course describes the anatomy and physiology of the vestibular system and an overview of various pathologies associated with patient complaints of vertigo, dizziness, and balance disorders. Principles of examination, evaluation, assessment, and rehabilitation of the patient with impairment of the vestibular system and/or impaired balance are described and performed.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1 Lab Contact Hours: 1

Typically Offered: Spring

PTE 800 - Advanced Topics in Geriatrics

Credit Hours: 1-2

In this course students gain insight into physical therapy related to the elderly population, their special needs and physiological changes, living environments, resources, etc. For an additional credit hour of this course, students are encouraged to develop further knowledge, skills, etc., with the elderly population. Based upon student interest and instructor approval, students may pursue additional in-depth study in areas such as (but not limited to): education, skill development, service-learning,

investigation, psychomotor skills, psychosocial issues, healthcare system, reimbursement, etc., related to geriatrics.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Demand

PTE 802 - Advanced Regional Anatomy

Credit Hours: 1-2

This is a variable content course offering in-depth coverage of basic, applied, and clinical aspects of gross anatomy of one or more of the following regions: head and neck, upper extremity, trunk, and lower extremity. Students observe, discuss, teach, learn and dissect selected body systems in detail. This course may incorporate traditional didactic lectures, problem based discussions, laboratory dissection with assignments that rely on critical thinking. Students relate anatomical structure to functional relations and correlate structure with clinical assessments and treatments. Students make oral presentations and use the library and other sources of information (such as the internet) to learn. May be repeated to a maximum of nine hours.

Prerequisite: enrollment in the program and permission of instructor.

Typically Offered: Demand

PTE 803 - Advanced Topics in Musculoskeletal Physical Therapy

Credit Hours: 1-3

This is a variable content course emphasizing the management of patients with musculoskeletal dysfunction focusing on research, differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the evidence-based process of patient management, i.e., examination, assessment, diagnosis, prognosis treatment, analysis of functional outcomes, and re-assessment. Students will focus on management of musculoskeletal dysfunction relation to one or more of the following regions: the upper extremity, the pelvis and lower extremity, or the spine and sacroiliac joint. May be repeated to a maximum of 12 hours.

Prerequisite: enrollment in the program and permission of instructor.

Typically Offered: Demand

PTE 804 - Advanced Topics in Pediatrics

Credit Hours: 1-2

This is a variable content course designed to allow students to develop their cognitive, psychomotor or affective skills at an advanced level in the area of physical therapy for children. The course may involve readings, projects, and direct clinical experiences individually contracted between the instructor and the student. May be repeated to a maximum of nine hours.

Prerequisite: enrollment in the program and permission of instructor.

Typically Offered: Demand

PTE 810 - Advanced Musculoskeletal - Lumbar Spine and Sacroiliac Joint

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: lumbar spine and sacroiliac joint. Specific, focused examination and

treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self care/home management.

Prerequisite: be in good standing in the program or permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

PTE 811 - Advanced Musculoskeletal - Cervical Spine

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: cervical spine. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self care/home management.

Prerequisite: be in good standing in the program or permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

PTE 812 - Advanced Musculoskeletal - Thoracic Spine

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: thoracic spine. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management.

Prerequisite: be in good standing in the program or permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

PTE 813 - Advanced Musculoskeletal - Hip

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: Hip. Specific, focused examination and treatment techniques are

included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management

Prerequisite: be in good standing in the physical therapy program or permission of department head.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Demand

PTE 814 - Advanced Musculoskeletal - Knee

Credit Hours: 3

Prerequisite: be in good standing in the physical therapy program or permission of director of school. This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: Knee. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high-velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management.

Prerequisite: be in good standing in the physical therapy program or permission of director of school.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Demand

PTE 815 - Advanced Musculoskeletal - Ankle and Foot

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: Ankle and Foot. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management.

Prerequisite: be in good standing in the physical therapy program or permission of department head.

Lecture Contact Hours: 2 Lab Contact Hours: 1

Typically Offered: Demand

PTE 821 - Advanced Musculoskeletal - Shoulder

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: shoulder. Specific, focused examination and treatment techniques are

included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management.

Prerequisite: be in good standing in the program or permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

PTE 831 - Advanced Musculoskeletal - Elbow and Hand

Credit Hours: 3

This course emphasizes the management of patients who have musculoskeletal dysfunction focusing on differential diagnosis and advanced manual examination and treatment techniques. Case studies are used to emphasize the process of patient management, i.e., examination, assessment, diagnosis, prognosis, treatment, analysis of functional outcomes, and re-assessment. Students will focus on the following regions during their course of study: Elbow and Hand. Specific, focused examination and treatment techniques are included stressing the integration of knowledge, skills, and evidence-based practice. Treatment techniques include the use of advanced methods of joint mobilization, high velocity low amplitude thrust manipulation, soft tissue mobilization, neural flossing, prescription and dosage of therapeutic exercise, and patient education to include self-care/home management.

Prerequisite: be in good standing in the program or permission of department head.

Lecture Contact Hours: 3

Typically Offered: Demand

PTE 871 - Physical Therapy Management and Administration

Credit Hours: 3

This course will provide students with opportunities to develop managerial and supervisory skills in healthcare settings where physical therapy is provided. Students will apply business and leadership principles through development of a physical therapy business. Understanding of business principles is demonstrated including facility planning, determining and utilizing appropriate business structure, financial management, leadership and communication skills, risk management, legal considerations, and use of consultants. Additionally, students are provided with opportunities to learn and apply management skills through involvement with community partners functioning in leadership positions.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 3

Typically Offered: Fall

PTE 872 - Orthotics, Prosthetics, and Assistive Technologies

Credit Hours: 3

This course covers limb amputations, orthotic and prosthetic devices, and splints. The use of orthoses, prostheses, and splints is fully integrated into principles of patient management. Advanced wheelchair prescriptions are discussed, as well as advanced technologies (computer technologies, etc.) that are useful in rehabilitation including occupational and industrial therapies and devices.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Fall

PTE 873 - Patient Management: Advanced Differential Diagnosis

Credit Hours: 3

This course focuses on managing patients using a "life-long" conceptual basis. It stresses the importance of being proactive in resolving complex issues, particularly those that impact patients for a lifetime. Critical thinking is an integral part of this course. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient/client management as described in The Guide to Physical Therapist Practice are used to guide the clinical decision making process. Integral to this course will be the use of case-based learning modules.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 3

Typically Offered: Fall

PTE 877 - Clinical Internship IV

Credit Hours: 8

This course provides continued clinical practice of skills in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for Clinical Internship IV. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short, reflective paper, and meet the requirements established by the Program and the clinical facility. Graded Pass/Not Pass only.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Fall

PTE 880 - Research Seminar

Credit Hours: 1

This course is an extension of Management of Research Projects. Students will present their scholarly work to faculty and fellow students as a platform or poster presentation. Variable content course. Graded Pass/Not Pass only.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1

Typically Offered: Spring

PTE 883 - Patient Management: Critical Integration and Analysis

Credit Hours: 1

This course stresses the importance of being proactive in resolving complex issues, particularly those that impact patients for a lifetime. Cost effectiveness, efficiency, long-term planning, and using the best adaptive equipment for the long-term are emphasized. The elements of patient management as described in The Guide to Physical Therapist Practice are used to guide the clinical decision making process. Critical thinking is an integral part of this course. The course will culminate with the preparation of complex case studies of patients treated by each student while on Clinical Internship IV and V and the presentation

of these case studies to student peers and faculty in a teaching seminar. Variable content course.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Lecture Contact Hours: 1

Typically Offered: Spring

PTE 887 - Clinical Internship V

Credit Hours: 8

This course provides clinical practice in the form of an eight-week, full-time clinical internship. Students will continue to develop their global clinical internship plan, while writing specific goals and objectives for Clinical Internship V. Students will complete a case study or present an "in-service" while on the eight-week internship, write a short reflective paper, and meet the requirements established by the program and the clinical facility.

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Spring

PTE 888 - Clinical Internship VI

Credit Hours: 6

This course provides clinical practice in the form of a six-week, full-time clinical internship. Students must meet the requirements established by the Program and the clinical faculty. After completion of Clinical Internship VI and upon their return to campus, students will enter a period of in-depth self-analysis and reflection concerning Clinical Internship VI and the entire clinical education experience. 6 S

Prerequisite: enrollment in the program and successful completion of all prior course work therein.

Typically Offered: Spring

Quantitative Business Analysis

QBA 600 - Statistical Methods in Business Research

Credit Hours: 3

Comprehensive study of the fundamentals of statistics. Designed for graduate students who have not had an undergraduate statistics course. This course will not be counted in the hours required for a College of Business graduate degree.

Prerequisite: permission of a director of a College of Business Graduate Program.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

QBA 737 - Research Design and Analysis

Credit Hours: 3

Advanced statistical methods for conducting research in business and economics. Discussion and application of design procedures, hypotheses formulation, data collection and data analysis. Topics include regression analysis, and analysis of

variance, multivariate analysis, experimental design, nonparametric methods, etc. Computer statistical packages will be used extensively.

Prerequisite: QBA 775 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Spring

QBA 775 - Quantitative Methods in Business Decision Making

Credit Hours: 3

A study of quantitative methods used to improve the decision-making process in business. Major topics include constrained optimization models, forecasting models, distribution/network models, simulation models, and project scheduling.

Prerequisite: admission to the MBA program or permission from the MBA Program Director; and QBA 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

Religious Studies

REL 615 - Topics in Biblical Studies

Credit Hours: 3

Advanced study of canonical and non-canonical texts and related subjects. Examples: Genesis, The Social World of Ancient Israel, Dead Sea Scrolls, Historical Jesus, Acts as History and Literature, Revelation and Apocalyptic Literature. Variable content course. May be repeated to a maximum of nine hours as topics change. May be taught concurrently with REL 510. Cannot receive credit for both REL 510 and REL 615 for the same topic.

Recommended Prerequisite: REL 101 or REL 102.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 632 - Religion, Media, and Popular Culture

Credit Hours: 3

Explores the relationship of religion and popular culture in multiple areas of American life, including film, television, sports, politics, popular music, and the comics. Examining the presence of religious stories and symbols in popular media, this course pays special attention to the influence of different religious traditions (Christian, Buddhist, Jewish, Muslim, etc.) while recognizing the internal diversity within each tradition. May be taught concurrently with REL 532. Cannot receive credit for both REL 532 and REL 632.

Recommended Prerequisite: REL 100 or REL 131.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 635 - Topics in Religion and Culture

Credit Hours: 3

Explores advanced issues in the study of religion as a component of cultural life including issues of gender, race, and ethnicity. Examples of topics: Religion and Politics; Religion, Media, and Popular Culture; Religion and Visual Culture; American Religious Communities; Lived Religion; Bible Belt Religion; Food and Religion; Women and Religion. Variable content course. May be repeated to a maximum of nine hours as topics change. May be taught concurrently with REL 530. Cannot receive credit for both REL 530 and REL 635 for the same topic.

Recommended Prerequisite: REL 100 or REL 131.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 638 - History of Pentecostalism

Credit Hours: 3

An historical overview of Pentecostalism in the United States from the early twentieth century to the present. Course themes include Beginnings, Healing, Media, Gentrification, Controversy, and Prosperity. Students will engage a range of sources, including primary texts, films and videos, artwork and photography, music and testimony. Combining attention to change-over-time with a topical focus on broader themes, students will recognize the fascinating nuances and variety of Pentecostal history. May be taught concurrently with REL 538. Cannot receive credit for both REL 538 and REL 638.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 645 - Topics in Religions of Asia

Credit Hours: 3

Studies of advanced topics in the comparative religions of Asia or in the history of a particular religious tradition. Topics may include material ranging from ancient history to the present day. Examples: Colonialism, Religion and Culture, Yoga, Fundamentalism. Variable content course. May be repeated to a maximum of nine hours as topics change. May be taught concurrently with REL 540. Cannot receive credit for both REL 540 and REL 645 for the same topic.

Recommended Prerequisite: REL 110.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 655 - Topics in Religions of Europe and the Middle East

Credit Hours: 1-3

Selected topics of advanced content in Judaism, Christianity, and/or Islam. Examples: Jewish Mysticism; Jewish Philosophy; The Spirituality of Martin Luther and John Calvin; Women in the History of Christianity; Islamic Law and Ethics; Sufism. Variable content course. May be repeated to a maximum of nine hours as topics change. May be taught concurrently with REL 550.

Cannot receive credit for both REL 655 and REL 550 for the same topic.

Recommended Prerequisite: REL 330, REL 340, or REL 350.

Typically Offered: Demand

REL 675 - Archaeology and the Bible

Credit Hours: 3

Archaeological discoveries in their relation to the literary, cultural, and religious background of the Bible. Methods and objectives of archaeological research, including a brief history of Near Eastern archaeology. May be taught concurrently with REL 570. Cannot receive credit for both REL 570 and REL 675.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 685 - Theories of Religion

Credit Hours: 3

This required course for graduate students surveys influential theories of religion from the Enlightenment to the present. Students will write a major research paper involving theoretical perspectives learned in the course. May be taught concurrently with REL 580. Cannot receive credit for both REL 580 and REL 685.

Prerequisite: permission of department head.

Lecture Contact Hours: 3

Typically Offered: Fall

REL 711 - Seminar in Religions of Asia

Credit Hours: 3

This seminar will examine a specific topic or tradition within Asian religions. Students can expect to do focused reading, discussion, and research on a particular subject related to the Hindu, Buddhist, Islamic, and/or other traditions of Asia. Historical and contemporary material, along with critiques of scholarship in the field, may be considered. May be repeated once if topic is different.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 731 - Seminar in Biblical Studies

Credit Hours: 3

This seminar examines a specific topic within the history and literature of the Hebrew Bible/Old Testament and/or New Testament. Students can expect to do focused reading, discussion, and research on a particular historical, literary, and/or methodological issue pertaining to the topic. Variable content course. May be repeated once if topic is different.

Recommended Prerequisite: REL 730.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 751 - Seminar in Religions of Europe and the Middle East

Credit Hours: 3

Detailed study of selected persons, authors, movements, and eras in the history of Judaism, Christianity, Islam, or other religions of Europe and the Middle East. Variable content course. May be repeated once if topic is different.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 771 - Seminar in Religion and Culture

Credit Hours: 3

A seminar applying various perspectives to individual religious practice and religious institutions in selected Western and non-Western societies. May be repeated once if topic is different.

Recommended Prerequisite: REL 770.

Lecture Contact Hours: 3

Typically Offered: Demand

REL 796 - Readings in Religious Studies

Credit Hours: 1-3

Arranged program of readings for the individual student directed by a member of the graduate faculty. Before enrolling in the course, student and instructor must sign an agreement that details the course requirements. Variable content course. May be repeated to a maximum of nine hours when topics vary.

Prerequisite: recommendation of the Religious Studies general graduate advisor and permission of instructor.

Typically Offered: Fall, Spring

REL 799 - Thesis

Credit Hours: 1-6

The student will prepare an in-depth thesis on a clearly-defined topic within his or her area of specialization. Before enrolling in the course, student and thesis advisor must sign an agreement that details the course requirements. May be repeated to a maximum of six hours.

Prerequisite: recommendation of the Religious Studies general graduate advisor and permission of student's thesis advisor.

Typically Offered: Fall, Spring

Research Design and Statistics

RCH 700 - Essentials of Statistics

Credit Hours: 2

This course serves an introduction to statistical concepts in the context of health and human services. Emphasis will be on developing an understanding of these concepts and applying them to the student's specific educational field. Students also will be introduced to appropriate statistics-related software packages. Identical with PTE 750. Can only receive credit for one of the following: PTE 750 or RCH 700.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

RCH 710 - Statistics for the Health Professions

Credit Hours: 3

This course focuses on the management and application of data generated by research completed in the context of health and human services. It will integrate the use of statistical methods, understanding the results of applying these methods, and drawing conclusions based upon data analysis. The intent of the course is to help students prepare to join local, national, and international research, practitioner, and/or application communities. Identical with PBH 730. Can only receive credit for one of the following: PBH 730 or RCH 710.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

RCH 720 - Essentials of Research Methods

Credit Hours: 2

This course serves as an introduction to research methodology in the context of health and human services. The specific aim of this course is to help students understand and grasp the relations between the research question, design, and method(s), and the data/theoretical interpretations. The material will be presented in a matter to strike a balance between fundamental, technical, and methodological activity to scientific and clinical research. Identical with OTE 731, PAS 777, and PTE 740. Can only receive credit for one of the following: OTE 731, PAS 777, PTE 740, or RCH 720.

Lecture Contact Hours: 2

Typically Offered: Fall, Spring, Summer

RCH 730 - Research Methods for the Health Professions

Credit Hours: 3

This course serves as an introduction to the evaluation and application of research methodology in the context of health and human services. The specific aim of this course is to help students grasp the relations between the research question, design, and method(s), the measurement of constructs, and the data/theoretical interpretations. The material will be presented in a matter to strike a balance between fundamental, conceptual, technical, and methodological activity to scientific and clinical research.

Identical with ATC 732, CSD 702, NUR 772, and PBH 760. Can only receive credit for one of following: ATC 732, CSD 702, NUR 772, PBH 760, or RCH 730.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

Risk Management and Insurance

RMI 620 - Risk Modeling and Analytics

Credit Hours: 3

Actuarial and financial models of risk, statistical distributions, and simulations. Applications to operational, credit and market risks. May be taught concurrently with RMI 520. Cannot receive credit for both RMI 520 and RMI 620.

Prerequisite: FIN 390 or FIN 485 or MTH 261 or RMI 310 or QBA 600 or concurrent enrollment in any of these courses.

Lecture Contact Hours: 3

Typically Offered: Fall

RMI 630 - Risk Transfer

Credit Hours: 3

Insurance transfers including captives. Non-insurance transfers including derivative markets, asset backed and insurance linked securitizations. May be taught concurrently with RMI 530. Cannot receive credit for both RMI 530 and RMI 630.

Prerequisite: FIN 390 or FIN 485 or MTH 261 or RMI 310 or QBA 600 or concurrent enrollment in any of these courses.

Lecture Contact Hours: 3

Typically Offered: Spring

RMI 638 - Introduction to Estate Planning

Credit Hours: 3

Estate planning process; estate distribution, probate, wills, trusts, gifts, life insurance; taxes incidental to an estate; administration of estates and trusts; analysis and selection of devices for lifetime and testamentary transfers of property. Identical with FIN 638. May be taught concurrently with RMI 538. Cannot receive credit for more than one of FIN 538, FIN 638, RMI 538, or RMI 638.

Prerequisite: LAW 231 or LAW 600; and FIN 380 or FIN 381 or FIN 600 or concurrent enrollment.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

RMI 785 - Advanced Topics in Risk Management and Insurance

Credit Hours: 3

Focus on the advanced study of risk management and insurance incorporating both theory and practice.

Prerequisite: QBA 600 or equivalent.

Lecture Contact Hours: 3

Typically Offered: Demand

RMI 792 - International Education Abroad in Risk Management and Insurance

Credit Hours: 3

Offered in conjunction with an international Education Abroad program, this course consists of three parts; 1. Background research and discussion on selected companies and institutions in one or more international locations to be visited. This will focus primarily on risk management and insurance aspects, but will also address the economic, political, global, historical, social, ethical, and cultural environment in which they function. 2. A visit, typically of seven days or longer, to the international destination(s) to explore the culture and visit companies, institutions, and cultural icons. 3. A final written project and discussion of the experience. The course involves research, written and oral reporting and presentations with graduate-level proficiency. Group interaction based upon trust, respect, and integrity are required.

Prerequisite: RMI 211; acceptance into the related Education Abroad program; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

RMI 795 - Domestic Field Experience in Risk Management and Insurance

Credit Hours: 3

Offered in conjunction with a domestic field experience program through the Office of Education Abroad, this course consists of three parts; 1. Background research and discussion on selected companies and institutions in one or more major U.S. financial center(s) (e.g. New York City) to be visited. This will focus primarily on risk management and insurance aspects, but will also address the economic, political, global, historical, social, ethical, and cultural environment in which they function. 2. A visit, typically of seven days or longer, to the destination(s) to explore the culture and visit companies, institutions, and cultural icons. 3. A final written project and discussion of the experience. The course involves research, written and oral reporting and presentations with graduate-level proficiency. Group interaction based upon trust, respect, and integrity are required.

Prerequisite: RMI 211; acceptance into the related field experience program; and admission to a graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

Student Affairs in Higher Education

SAE 721 - Introduction to Student Affairs

Credit Hours: 3

An introductory course designed for the student pursuing a career in Student Affairs. This course explores the origin, history, philosophy, theory, and practice related to the Student Affairs profession.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 723 - Student Development Theory

Credit Hours: 3

Introduces the student to student development theories. A basic understanding allows the student to note application of these theories to practice. This will result in Student Affairs professional who can design approaches that work most effectively with students.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 726 - Higher Education in the United States

Credit Hours: 3

The historical development of American higher education will be presented. Political, social, economic, and intellectual issues will be examined from its inception to the present day for contemporary application. A focus will be on the matrix of trend, topics, and eras. An emphasis is placed on higher education in the post World War II era creating a solid background of higher education in the last 50 years.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 727 - Inclusive Campus Environment

Credit Hours: 3

This introductory course will examine the issues, concepts, and problems that contribute to the discourse on creating and sustaining inclusive campus environments at institutions of higher education (IHEs), especially at traditional majority white institutions (TWIs). Definitely, there is not a universal pathway toward creating and sustaining inclusive campus environments. The institution's mission, culture, and traditions play a major role in shaping the context of inclusive campus environments.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 728 - Individual and Group Support Skills

Credit Hours: 3

The individual purpose of this course is to help emerging Student Affairs professionals strengthen and expand their capacity to help individual undergraduates and small groups of undergraduates remove barriers which impact student success as measured in degree attainment within institutions of higher education (IHEs). Emerging professionals with sound personal foundations and boundary spanning skills are able to partner with individuals and small groups of students who may be different. The differences may include many dimensions of diversity, including factors such as race ethnicity, gender, differential ability, and sexual orientation. Student Affairs professionals will demonstrate competence in using helping skills (listening, paraphrasing, group facilitation, and problem solving) to work with individuals and small groups in the university environment. Thus, the class will provide students through lecture and experimental learning the opportunities to acquire and practice helping skills in a safe

environment. The anticipated outcome of the class is that students will acquire an advanced capability in helping students and small groups remove barriers to their academic success/degree attainment. Thus, the class seeks to align the curricular and application practices with ACPA/NASPA Personal Foundation, Helping, and Equity, Diversity and Inclusion Competencies.

Prerequisite: admission to the Student Affairs in Higher Education Program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 729 - Foundations of Research

Credit Hours: 3

Students will acquire and use research methods skills. These skills will be put to use in preparing a research proposal, reviewing empirically-based journal articles, formulating hypotheses, designing observational studies, and analyzing and interpreting data.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 732 - Leadership and Administration in Higher Education

Credit Hours: 3

Students will be provided with the opportunity to develop a firm working concept of leadership theories and principles. Upon completion of the course, students should be able to identify and discuss the role of leadership in student affairs, and be able to apply those leadership principles to activities in their job.

Prerequisite: admission to Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 735 - Governance and Finance in Higher Education

Credit Hours: 3

Exposure of the student to theoretical and applied concepts of governance and finance structures in higher education. Emphasis will be on organizational structures, financial operations, terminology, successful administrative/management practices, and models prevalent in higher educational settings.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 738 - Legal and Ethical Issues in Student Affairs

Credit Hours: 3

Introduction to the basic and current legal and ethical concepts that face American colleges and universities today. Topics to be

discussed include the basis from which higher education law is formed; current case, state, and regulatory laws; personnel issues; and risk management and liability issues for higher education.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Fall

SAE 747 - Supervised Practice

Credit Hours: 3

Students will earn academic credit for completion of two practica working in Student Affairs departments. Knowledge accumulated in coursework will be applied to the work setting. Experiences are cooperatively planned and guided by university personnel. May be repeated to a maximum of six hours.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 748 - Special Projects: Reflective Moments in Higher Education and Student Affairs

Credit Hours: 3

The primary objective of this course is to provide students who are full-time employees at either MSU or area institutions an alternative to the traditional 6-hour supervised practice requirement that most cohort students complete through SAE 747, Supervised Practice. Similar to SAE 747, Supervised Practice, students will complete two sections of the course (6 hours) distributed over two semesters. Under the direction of the instructor, students will complete an extensive seminar/degree paper that enhances the student's graduate program portfolio requirement. May be repeated to a maximum of six hours.

Prerequisite: admission to the Student Affairs in Higher Education program or the Perspectives about the American Higher Education System graduate certificate.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

SAE 749 - Student Outcomes

Credit Hours: 3

Fostering undergraduates' success inside and outside of the classroom is a byproduct of academic and student affairs collaboration. The aim of the course is to help new professionals understand the outcomes of student success.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 755 - Topical Seminar

Credit Hours: 1-3

This seminar seeks to provide students a curricular structure to assimilate emerging professional development practices in higher education and student affairs. Course will not count toward SAE degree requirements.

Prerequisite: permission of SAE Program Director.

Typically Offered: Summer

SAE 766 - Research Methods and Data Analysis**Credit Hours:** 3

This course provides a review of the most commonly utilized research designs and methods and approaches to data analysis and reporting in Student Affairs. Students will learn how to utilize research studies in the academic and professional literature and how to prepare research proposals and conduct research within a college or university setting. Students completing the course should have an understanding of the factors which influence research quality, including reliability, validity and the use and misuse of statistics.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Summer

SAE 767 - Assessment and Evaluation**Credit Hours:** 3

This course provides a "hands-on" approach to assessment and evaluation of individual and program outcomes in Student Affairs, focusing on how to measure change in student knowledge, skills and behaviors and the effectiveness of programs in producing outcomes. The course will also address the relationship of assessment and evaluation to: strategic, division and program planning; benchmarking and program review; and the preparation of grant proposals.

Prerequisite: admission to the Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

SAE 771 - Capstone Seminar**Credit Hours:** 3

This professional seminar is designed to promote the integration of the core curriculum and practitioner experiences of the master's program in student affairs administration, and to prepare students for the transition to a professional Student Affairs position following completion of the degree.

Prerequisite: admission to Student Affairs in Higher Education program.

Lecture Contact Hours: 3

Typically Offered: Spring

Science Education

SCI 605 - Intellectual Foundations of Science and Technology

Credit Hours: 3

An historical and philosophical examination of the origins and the development of science and technology. The differences between science and technology, their interrelationships in modern times, and the impact of each of these on society will be considered. May be taught concurrently with SCI 505. Cannot receive credit for both SCI 505 and SCI 605.

Lecture Contact Hours: 3

Typically Offered: Spring

SCI 662 - Teaching Science Using Technology in the Classroom and Laboratory

Credit Hours: 3

In this course, students will experience hands-on uses of technology in the science classroom and science teaching laboratory. Instruction will focus on safe and effective uses of laboratory techniques and technology to teach science. The course will emphasize the potential of the science laboratory as a vehicle to promote student understanding of science and scientific inquiry. There is a special emphasis on using technology and online resources to supplement instruction in the science classroom. This includes, but not limited to, the use of probes, various software simulations and modeling programs along with internet access to databases and other appropriate websites showing simulations, etc. that support the learning environment in science.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

SCI 685 - Topics in Science Education

Credit Hours: 1-4

A variable content course for offering selected topics of interest to science teachers in the elementary, middle, or secondary schools; or in college classrooms. May be repeated to a maximum of six hours when the topic varies. No more than six hours may be counted toward a degree. May be taught concurrently with SCI 580. Cannot receive credit for both SCI 580 and SCI 685.

Typically Offered: Demand

SCI 780 - Advanced Topics in Science Education

Credit Hours: 1-4

A variable content course for offering selected topics of interest to science teachers in the elementary, middle, or secondary schools; or in college classrooms. May be repeated to a maximum of six hours when the topic varies. Maximum of six hours may be counted toward degree.

Prerequisite: 12 hours of graduate coursework.

Typically Offered: Demand

SCI 783 - Internship in Teaching Secondary Science I

Credit Hours: 3

Introduction to the fundamental skills necessary to become a confident well rounded science teacher in the high school setting. This course emphasizes the integration of current science learning theories and standards into classroom experiences. Students learn to design and teach science through various inquiry pedagogical approaches. Students learn to assess content knowledge achievement through formal and informal techniques. Practical classroom management will be emphasized. During the 60-hour practicum experience, students observe classroom teachers and teach science under the direction of a cooperating teacher and the university supervisor. Students complete an on-going seminar through asynchronous online assignments and communication.

Prerequisite: admission to the Master of Arts in Teaching program; complete an appropriate background check; attempt the current DESE designated assessment(s); and maintain current pre-professional liability insurance.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Spring

SCI 784 - Internship in Teaching Secondary Science II

Credit Hours: 9

This course is a semester-long, on-site supervised teaching experience in secondary science. The experience will be conducted within an accredited private or public school. It encompasses field experience and full-time student teaching, under the supervision of a cooperating teacher and a university supervisor. During this experience, the candidate will observe, then ultimately assume complete responsibility for teaching, including planning the lessons, instruction, assessment, and classroom management to meet the needs of all learners. Successful completion of the DESE teaching performance assessment is required. The candidate is expected to adhere to the normal schedule of the site, including full workdays and weeks, active participation in school-related activities, and attendance at all required meetings and professional development activities. Students complete an on-going seminar through face-to-face meetings or synchronous online communication. Further details and policies related to this course can be found in the Student Teaching Handbook. The internship starts with 15 hours of practicum/observation. Student teaching will include a full semester of full-time school contact hours under the supervision of a cooperating teacher and a university supervisor.

Prerequisite: SCI 783; acceptance into the Master of Arts in Teaching program; a passing score on the current DESE designated assessment(s) are required; additionally, the candidate must have a background check, current pre-professional liability insurance, and maintain compliance.

Typically Offered: Fall, Spring

Secondary Education

SEC 622 - Philosophy of Vocational Education

Credit Hours: 1-3

Philosophical foundations of vocational education; philosophies of vocational education in contemporary school. Identical with AGV 622. May be repeated to a maximum of three hours.

Typically Offered: Demand

SEC 626 - Curriculum in Career and Technical Education

Credit Hours: 3

Investigation of various types of CTE curriculum including fundamental concepts of CTE for implementing effective programs.

May be taught concurrently with SEC 526. Cannot receive credit for both SEC 526 and SEC 626.

Lecture Contact Hours: 3

Typically Offered: Demand

SEC 627 - Teaching Adults in Vocational Education

Credit Hours: 3

Rise of the adult education movement; learning abilities, educational interests and vocational needs of adults; problems and procedures in organizing and operating adult education programs; relationship of adult education to public school education. Identical with AGV 627 and AGE 608. Cannot receive credit for SEC 627 and AGV 627 and AGE 608.

Lecture Contact Hours: 3

Typically Offered: Demand

SEC 628 - Measurement and Evaluation of Vocational Education Programs

Credit Hours: 1-3

Assessing specific program needs as determined from occupational surveys and other demographic data; follow-up techniques to evaluate the overall effectiveness of the program on manpower needs in a given labor market area. Identical with AGV 628. May be repeated to a maximum of three hours. May be taught concurrently with SEC 528. Cannot receive credit for both SEC 528 and SEC 628.

Typically Offered: Demand

SEC 701 - Secondary School Curriculum

Credit Hours: 3

Foundation course in the development and organization of the secondary school curriculum.

Lecture Contact Hours: 3

Typically Offered: Spring

SEC 703 - Seminar in Current Trends in Teaching English

Credit Hours: 2

For experienced teachers of English in grades 9-12; research and recent developments in teaching literature and composition.

Prerequisite: ENG 405.

Lecture Contact Hours: 2

Typically Offered: Demand

SEC 704 - Seminar in Current Trends in Teaching Social Studies

Credit Hours: 2

For experienced teachers of social studies in grades 9-12; research and recent developments in teaching various areas of social studies.

Prerequisite: HST 418.

Lecture Contact Hours: 2

Typically Offered: Demand

SEC 705 - Curriculum Construction in Business Education

Credit Hours: 1-3

Objectives and interrelationships of business education courses and programs. Development of curricular materials and evaluative devices. May be repeated to a maximum of three hours.

Typically Offered: Demand

SEC 706 - Seminar in Current Trends in Teaching Business Education

Credit Hours: 2

For experienced teachers of business education in grades 9-12; research and recent developments in teaching business education.

Lecture Contact Hours: 2

Typically Offered: Demand

SEC 707 - Seminar in Current Trends in Teaching Mathematics

Credit Hours: 2

For experienced teachers of mathematics in grades 9-12; research in recent trends and developments in teaching mathematics.

Prerequisite: MTH 409.

Lecture Contact Hours: 2

Typically Offered: Fall

SEC 708 - Seminar in Current Trends in the Teaching of Biology

Credit Hours: 2

Methods of teaching biology; emphasizing modern techniques and developments in both the biological science curriculum and instructional procedures relating to that curriculum.

Lecture Contact Hours: 2

Typically Offered: Demand

SEC 783 - Internship in Teaching I

Credit Hours: 3

A site-based clinical experience. Students will observe the operations of a school, serve as teacher aides and administrative aides in the school; and work closely with school and community service organizations. Students will also complete an on-going seminar through online or literature based delivery systems. Students will implement an initial Teacher Work Sample in a classroom under the supervision of a cooperating teacher.

Prerequisite: SFR 751 or MID 725; complete appropriate background check and obtain current professional liability insurance.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Fall

SEC 784 - Internship in Teaching II

Credit Hours: 6-12

A semester-based supervised teaching experience. Students teach full time, under the supervision of a cooperating teacher and a University supervisor.

Prerequisite: SEC 783; acceptance into the Master of Arts in Teaching program; and a passing score on the Missouri Content Assessment(s) (MoCA).

Typically Offered: Spring

SEC 785 - Internship in Teaching III

Credit Hours: 1

Students will complete a professional preparation portfolio. The professional portfolio will be evaluated by instructors in order to determine how well the candidate demonstrated understanding of DESE content standards and MoSPE standards.

Prerequisite: SEC 783 and SEC 784.

Typically Offered: Demand

Secondary Education, Foundations, and Research

SFR 621 - Techniques for Teaching Adults

Credit Hours: 3

A survey of the principles, objectives and trends in instructional techniques for adult education. May be taught concurrently with SFR 521. Cannot receive credit for both SFR 521 and SFR 621.

Lecture Contact Hours: 3

Typically Offered: Demand

SFR 647 - Guidance and Interpersonal Relationships in the Classroom

Credit Hours: 2

Appropriate classroom communication and interpersonal skills. Emphasis on the relationship between self concept development and achievement in a diverse student population. May be taught concurrently with SFR 547. Cannot receive credit for both SFR 547 and SFR 647.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 676 - Topical Issues in Education**Credit Hours:** 1-5

To develop further understanding and skills in the improvement of teaching procedures, curriculum, supervision, or administration. Each course is concerned with a single topic. Number of class hours determined by semester hours of credit. A maximum of 3 hours may be used on a degree program. Variable Content Course. May be taught concurrently with SFR 576. Cannot receive credit for both SFR 576 and SFR 676.

Typically Offered: Demand

SFR 681 - Law and the Classroom Teacher**Credit Hours:** 2

Rights and responsibilities of classroom teachers as determined by the legal structure created by state and federal constitutions, legislative actions, and judicial decisions. Implications of legal foundations for teachers relative to ethics, relationships with students, colleagues, minority groups, professional organizations, and others. May be taught concurrently with SFR 581. Cannot receive credit for both SFR 581 and SFR 681.

Prerequisite: Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 682 - Contemporary Issues in Education**Credit Hours:** 2

In-depth analysis of selected issues currently generating great interest and controversy in American education. Attention to the effects of the issues on the teaching profession, curriculum, instruction, and school personnel. May be taught concurrently with SFR 583. Cannot receive credit for both SFR 583 and SFR 682.

Prerequisite: Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 695 - Applications of Educational Measurement**Credit Hours:** 2

Using the results of testing in schools. The role, advantages, and limitations of evaluative instruments and techniques in educational decision making. May be taught concurrently with SFR 595. Cannot receive credit for both SFR 595 and SFR 695.

Prerequisite: Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 698 - College Teaching Practicum

Credit Hours: 1-3

This is a field experience-based course that requires the student to spend a minimum of 20 clock hours per credit hour in a college teaching environment where students observe, teach, and/or participate in professional activities in college teaching under the direction of a cooperating supervisor/faculty. Students will demonstrate effective teaching and behavior management techniques, as well as expertise in instructional planning and evaluation.

Prerequisite: permission of the coordinator of the College Teaching Graduate Certificate.

Typically Offered: Demand

SFR 709 - Individualizing Instruction

Credit Hours: 3

Training in various procedures for individualizing instruction at all grade levels.

Lecture Contact Hours: 3

Typically Offered: Demand

SFR 711 - Principles and Organization of Student Activities

Credit Hours: 2

Acquaints teachers and administrators with problems and procedures involved in the organizations and supervision of student activities.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 723 - Organization and Administration of Adult Education

Credit Hours: 3

Theory and practice relating to the organization, administration, and supervision of adult education. Emphasis will be placed upon adult education programs in the public school and the junior-community college.

Lecture Contact Hours: 3

Typically Offered: Demand

SFR 724 - Organization and Administration of Vocational Education

Credit Hours: 1-3

Problems, procedures and local, state and federal relationships in organization and administration of vocational education in the contemporary school. Identical with AGV 724. May be repeated to a maximum of three hours.

Typically Offered: Demand

SFR 730 - Curriculum Construction in the School

Credit Hours: 2

Traditional, humanistic, and behavioristic approaches to advanced curriculum development in the school.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 750 - Sociocultural Foundations of Education

Credit Hours: 3

This course provides students with fundamental knowledge in such areas as the philosophy and history of education, education law and policy derived from educational philosophies, the political nature of educational policy, and broader philosophical and sociocultural issues impacting school and its relationship to society.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SFR 751 - Introduction to Teaching and Learning

Credit Hours: 3

The purpose of this course is to develop deep understandings and skills pertaining to teaching and the procedures, methods, curriculum design, classroom management, and foundations - those fundamental pedagogical skills - required to be a practicing teacher. Candidates will be introduced to the electronic portfolio. Electronic portfolio checkpoint one will occur in this course.

Lecture Contact Hours: 3

Typically Offered: Summer

SFR 753 - Comparative Educational Systems

Credit Hours: 2

Comparative analysis of major ideas and institutions of selected international systems of education. Comparisons between international systems of education and systems dominant in America.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 780 - Educational Research Methodology

Credit Hours: 3

Survey of research methods used in education; research design and evaluation; problems of interpretation and application; development of a formal research proposal.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SFR 781 - Applied Educational Research

Credit Hours: 3

Introduction to research methodologies utilized in educational research to include an exploration of qualitative, quantitative, and mixed methods research. Students will learn to examine, evaluate, synthesize, and apply research in their professional work. This course focuses on research to inform and improve upon an educator's pedagogical skills, the work of the school, and to meet the needs of students and community.

Lecture Contact Hours: 3

Typically Offered: Demand

SFR 791 - Educational Workshop

Credit Hours: 1-9

Workshop to upgrade understandings and skills, concerned with the improvement of secondary teaching procedures, curriculum, supervision, administration or guidance. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. May be repeated to a maximum of nine hours. Thirty clock hours equal one credit hour.

Typically Offered: Demand

SFR 792 - Supervision of Student Teachers

Credit Hours: 2

For public school teachers cooperating in college student-teaching programs; organizing and directing work of the student teacher.

Prerequisite: valid elementary or secondary teaching certificate.

Lecture Contact Hours: 2

Typically Offered: Demand

SFR 793 - Qualitative Research Methods

Credit Hours: 3

This course is focused on qualitative methods in the social sciences and specifically in educational research, including educational action research. Depending on prior research work, students will plan, implement, or further a qualitative or action research study. Students will learn firsthand about collecting and analyzing qualitative data, developing theories, and writing up the results. Students will also explore the role of educational action research in professional development, in improving classroom practices, and in developing school policy.

Lecture Contact Hours: 3

Typically Offered: Demand

SFR 794 - Research Practicum**Credit Hours:** 1-3

Conducting research projects with schools and other educational agencies. Students will be engaged in articulating research problems, reviewing literature, collecting and analyzing data, and presenting results.

Prerequisite: SFR 780.

Typically Offered: Demand

SFR 796 - Problems in Education**Credit Hours:** 1-3

Specific problems in education related to needs and interests of the student. May be repeated to a maximum of three hours.

Typically Offered: Demand

SFR 797 - Advanced Studies in Teaching and Learning**Credit Hours:** 9

The purpose of this course is to develop deep understandings and skills regarding secondary teaching, procedures, methods, curriculum, supervision, administration and foundations. Candidates will be introduced to the electronic portfolio. Portfolio checkpoint one will occur in this course.

Prerequisite: admitted to the Master of Arts in Teaching program.

Typically Offered: Demand

SFR 799 - Thesis**Credit Hours:** 1-6

Independent research and study connected with preparation of thesis. May be repeated to a maximum of six hours.

Prerequisite: SFR 780.

Typically Offered: Demand

SFR 858 - Current Issues Affecting Education

Credit Hours: 1-3

This multi-disciplinary mini-course is composed of selected topics of current interest to all school personnel. Opportunities are provided for object examination of highly volatile controversies surrounding education. May be repeated to a maximum of six hours.

Typically Offered: Demand

SFR 890 - Field Research and Evaluation

Credit Hours: 3

Specifically designed to give each student the prerequisite skills and competencies necessary for completion of field study research project(s) as well as preparation for conducting on-the-job institutional research.

Lecture Contact Hours: 3

Typically Offered: Demand

Sociology

SOC 697 - Directed Readings in Sociology

Credit Hours: 1-3

Readings designed to supplement material introduced in previous Sociology courses. Includes a wide selection from literature in the field. May be repeated to a maximum of nine hours, but no more than six hours may be applied to the sociology major. May be taught concurrently with SOC 596. Cannot receive credit for both SOC 596 and SOC 697.

Prerequisite: permission of instructor.

Typically Offered: Demand

Special Education

SPE 602 - Early Intervention for Young Children with Autism

Credit Hours: 1

This course constitutes the second and last segment of the Missouri Autism Institute for educators who are, or will be, working with young children birth to age six who experience symptoms of autism. May be taught concurrently with SPE 502. Cannot receive credit for both SPE 502 and SPE 602.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1

Typically Offered: Demand

SPE 604 - In-District Autism Consultant Training

Credit Hours: 1

Students will study advanced educational techniques of autism in general and educational methodologies specifically used with children with autism. Instruction will be provided in consultation and collaboration techniques. Students will demonstrate competence in educational report writing and in-service instruction. Personal professional development plans will be developed by each student, as well as a rating of personal competence. Students will be provided with resources for further study. May be taught concurrently with SPE 504. Cannot receive credit for both SPE 504 and SPE 604.

Prerequisite: current Missouri teaching certification or permission of school director.

Lecture Contact Hours: 1

Typically Offered: Demand

SPE 605 - Braille Reading and Writing I**Credit Hours:** 3

This course has been designed to enable teachers of children and youth with visual impairments develop basic competencies in reading and writing literary Braille, prepare correctly formatted Braille material, and have an awareness and basic understanding of the Nemeth codes for math and science for students grades K-12. Students will employ the use of the Perkins Braille Writer, slate and stylus, Perky Duck, and Duxbury translation software to produce high quality Braille material. Successful completion of this course should be regarded as only one step in a series of courses leading to certification in teaching students with visual impairments. An approved certification process must be completed in order to acquire basic and necessary competencies for work with children and youth with visual impairments. Finally, the course has been designed to help teachers develop an appreciation for the Braille system and the application of this system to all aspects of life for individuals with visual impairments. Instructor and/or site based facilitators will provide monthly face to face instruction to students whenever possible. Students must complete SPE 505 and SPE 611 to achieve mastery of literary Braille code. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 505. Cannot receive credit for both SPE 505 and SPE 605.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 606 - Principles of Orientation and Mobility**Credit Hours:** 2

This course focuses on the history, philosophy, and ethics of orientation and mobility. Participants will also consider various consumer driven approaches in orientation and mobility. The course will give the teacher of the visually impaired the ability to perform and monitor basic techniques of orientation and mobility as used by students who are blind, visually impaired, or multi-handicapped. Students will be required to create a video record of their blindfold and other sensory experiences to illustrate their skill development. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 506. Cannot receive credit for both SPE 506 and SPE 606.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Spring

SPE 607 - Services and Diversity in Blindness and Low Vision and Additional Disabilities

Credit Hours: 2

An introduction to educational programs and services, and diversity issues for persons with blindness or low vision, deaf-blindness and multiple disabilities. This course will provide teachers, paraprofessionals, rehabilitation professionals, counselors, social workers, psychologists, etc. with a foundation in the issues of diversity for persons with blindness and low vision, historical perspectives, developmental characteristics, resources, and legislation related to severe and multiple disabilities. An emphasis will be placed on the implications of blindness or low vision, deaf-blindness and multiple disabilities on the development of the individual and on resources that enhance functioning. May be taught concurrently with SPE 507. Cannot receive credit for both SPE 507 and SPE 607.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Summer

SPE 608 - Low Vision, Anatomy and Physiology of the Eye**Credit Hours: 3**

This course will introduce teachers, rehabilitation specialists and others to practical applications of low vision techniques. The students will use low vision simulators to perceive, integrate and react to different environmental stimuli. Sections of the course will involve clinical low vision examinations. Analysis and application of the fundamental principles and theory of sensory information acquisition by the visually impaired or blind as it applies to the classroom teacher will be stressed. Also, the course will address a full array of eye diseases and conditions and the educational implications. Note: Midterm and final examinations will be proctored. May be taught concurrently with SPE 508. Cannot receive credit for both SPE 508 and SPE 608.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 613 - Physical and Health Needs of Students with Disabilities**Credit Hours: 3**

Focuses on the role of the special educator in management of health related issues such as monitoring medication and providing services to individuals with specialized self care needs and those with chronic illness. Emphasis will be placed on collaboration with related services staff and medical personnel as well as the integration of the student with health care needs into school and community settings. May be taught concurrently with SPE 510. Cannot receive credit for both SPE 510 and SPE 613.

Prerequisite: SPE 715.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 616 - Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings**Credit Hours: 3**

Focuses on the foundational principles of applied behavior analysis. Emphasis will be placed on the development of positive behavior support plans that proactively assist students with challenging behavior in applied and/or school settings. May be taught

concurrently with SPE 515. Cannot receive credit for both SPE 515 and SPE 616.

Prerequisite: admission to the Special Education program or Early Childhood Special Education program.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 617 - Direct Instruction in Reading and Language Arts

Credit Hours: 3

Empirically based instructional practices with emphasis on systematic development of reading and written language skills to support learners with special needs will be applied in a school setting. Students will also gain knowledge of varied theoretical perspectives and instructional approaches including validated behavioral and cognitive based methods that support diverse learners. The content of the course will include activities to support determination of present level of performance and placement in special and general education curricula per IDEA and other Federal mandates. May be taught concurrently with SPE 517. Cannot receive credit for both SPE 517 and SPE 617.

Prerequisite: SPE 310 or SPE 715; and SPE 345 or SPE 782; and SPE 346 or SPE 792.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings

Credit Hours: 3

This course focuses on the application of principles of Applied Behavior Analysis within school-based settings. Students will complete functional assessments with children with ASD and develop and implement function- and reinforcement-based interventions. A minimum of 60 hours of field experience is required. May be taught concurrently with SPE 516. Cannot receive credit for both SPE 516 and SPE 618.

Prerequisite: SPE 515 or SPE 616.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners

Credit Hours: 3

Focuses on the application of theoretical perspectives and research-based methods of teaching students with learning disabilities or emotional and behavior disturbances. Evaluation procedures appropriate to analysis of academic achievement, social behavior, monitoring achievement, and behavioral change will be emphasized along with educational programming that promotes increasing achievement levels, improved social development, and inclusion. This course will incorporate elements of career/vocational education and transition, plus accommodations and best practices for content-area instruction provided to diverse learners in the general education program. May be taught concurrently with SPE 519. Cannot receive credit for both SPE 519 and SPE 619.

Prerequisite: SPE 310 and SPE 320 or SPE 715; and SPE 345 or SPE 782; and SPE 346 or SPE 792; and SPE 515 or SPE 616 or concurrent enrollment; and admitted to MSed program in Special Education.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 620 - Practicum-Teaching Individuals with Learning and Behavioral Disorders

Credit Hours: 2

Students will apply skills from introductory and specialized courses in settings with students with learning disabilities and behavioral disorders. Students will be involved in individual and small group instruction, review diagnostic data, develop and implement educational programs, as well as meet with the university supervisor and other practicum students to reflect on experiences. May be taught concurrently with SPE 520. Cannot receive credit for both SPE 520 and SPE 620.

Prerequisite: concurrent enrollment in SPE 619; and Teacher Certification students must be admitted to Teacher Education.

Lab Contact Hours: 4

Typically Offered: Demand

SPE 621 - Methods II: Functional Living Skills and Health Issues

Credit Hours: 3

Stresses application of theoretical perspectives and research-based methods for individuals with developmental disabilities (i.e., intellectual disabilities, autism, cerebral palsy) who may have associated orthopedic and health impairments (e.g., ADHD and epilepsy). Students will conduct an analysis of assessment data, apply data in the development of diagnostic conclusions and corresponding educational plans. Emphasis will be placed on evaluation, accommodations, and programming for integration in school, community, and vocational settings. May be taught concurrently with SPE 521. Cannot receive credit for both SPE 521 and SPE 621.

Prerequisite: SPE 320 and SPE 322 or SPE 715; SPE 345 or SPE 782; and SPE 346 or SPE 792; and SPE 515 or SPE 616 or concurrent enrollment in SPE 515 or SPE 616; and admitted to MSED Special Education program.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 622 - Practicum-Instruction of Students with Developmental Disabilities and Other Health Impairments

Credit Hours: 2

Students will apply skills from introductory and specialized courses in settings with students with developmental disabilities (e.g., mental retardation, autism, Asperger syndrome, cerebral palsy) and orthopedic and health impairments (e.g., ADHD, epilepsy). Students will be involved in individual and small group instruction, develop and implement educational programs, as well as meet with the university supervisor and other practicum students to reflect on experiences. May be taught concurrently with SPE 522. Cannot receive credit for both SPE 522 and SPE 622.

Prerequisite: concurrent enrollment in SPE 621 and Teacher Certification students must be admitted to Teacher Education.

Lab Contact Hours: 4

Typically Offered: Demand

SPE 623 - Curriculum and Methods in Early Childhood Special Education

Credit Hours: 3

Focuses on major aspects in early childhood special education including legislation, litigation, and current issues in the field. Each area of development of young children with disabilities will be a part of the course with particular emphasis on adaptation of materials and curricula to meet the needs of these children. There will also be a focus on families and issues surrounding assessment and eligibility for special education programs. Reflection on current practices and services for young children with disabilities will be included. May be taught concurrently with SPE 523. Cannot receive credit for both SPE 523 and SPE 623.

Prerequisite: SPE 310 or SPE 715; and admission to MEd in Special Education or Elementary Education or Early Childhood Special Education, or MS in Early Childhood and Family Development, or permission of school director.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders**Credit Hours:** 3

This course will support individuals across various disciplines who wish to gain knowledge of identification and programming for individuals on the Autism Spectrum. Conditions associated with ASD will be examined along with etiology, prevalence, and programming issues for this population of individuals. This course will also emphasize school based interventions that are validated by research. May be taught concurrently with SPE 525. Cannot receive credit for both SPE 525 and SPE 625.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 626 - Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders**Credit Hours:** 3

This course focuses on the application of principles of Applied Behavior Analysis within applied settings. Students will complete functional assessments, including functional analysis, with children with ASD and develop and implement function- and reinforcement-based interventions, with a focus on the variations of differential reinforcement. A minimum of 60 hours of field experience is required. May be taught concurrently with SPE 526. Cannot receive credit for both SPE 526 and SPE 626.

Prerequisite: SPE 515 or SPE 616; and SPE 516 or SPE 618.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

SPE 627 - Research-Based Strategies for Individuals with ASD**Credit Hours:** 3

This course is designed to provide students with an overview of current research-based practices for individuals with ASD, including functional communication training, discrete trial training, pivotal response training, visual strategies, social-communication programming, and naturalistic and structured teaching methodologies.

Prerequisite: SPE 618 or SPE 625 or equivalent.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

SPE 630 - Conceptually Accurate Signed English I

Credit Hours: 3

Gain beginner level skill in sign language and finger-spelling through Manually coded English. Develop a general knowledge base including the history of sign language and the spectrum of sign options available. Students will be required to complete a project in an area related to their professional course of study. May be taught concurrently with SPE 301. Cannot receive credit for both SPE 301 and SPE 621.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 631 - Conceptually Accurate Signed English II

Credit Hours: 3

Emphasis on the expansion of Manually Coded English sign language skills through the use of conversation and the increased development of vocabulary. Students will be required to complete a project in an area related to their professional course of study. May be taught concurrently with SPE 302. Cannot receive credit for both SPE 302 and SPE 631.

Prerequisite: SPE 301 or SPE 630.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SPE 636 - Introduction to American Sign Language (ASL)

Credit Hours: 3

A beginning level course in American Sign Language. Students will gain information about the history and structure of this unique visual/gestural system of communication, its vocabulary and syntax, and practical experience in its use, both expressively and receptively. May be taught concurrently with SPE 311. Cannot receive credit for both SPE 311 and SPE 636.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SPE 637 - Introduction to American Sign Language (ASL) II

Credit Hours: 3

An advanced beginning level course in American Sign Language. Students will gain more complex introductory information about the history and structure of this unique visual/gestural system of communication, its vocabulary and syntax, and practical experience in its use, both expressively and receptively. May be taught concurrently with SPE 312. Cannot receive credit for both SPE 312 and SPE 637.

Prerequisite: SPE 636.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 638 - Introduction to American Sign Language (ASL) III

Credit Hours: 3

An intermediate level course in American Sign Language. Students will gain information regarding vocabulary, syntax and cultural factors related to this unique visual/gestural system of communication. Students will gain further practical experience in its use, both expressively and receptively. May be taught concurrently with SPE 313. Cannot receive for both SPE 313 and SPE 638.

Prerequisite: SPE 637.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 639 - Introduction to American Sign Language (ASL) IV

Credit Hours: 3

An advanced level course in American Sign Language. Students will gain information regarding vocabulary, syntax and cultural factors related to this unique visual/gestural system of communication. Students will gain further practical experience in its use, both expressively and receptively. May be taught concurrently with SPE 314. Cannot receive credit for both SPE 314 and SPE 639.

Prerequisite: SPE 638.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 640 - International Experiences in K-12 Special Education - Education Abroad

Credit Hours: 1-6

This course involves a field-based Education Abroad experience involving an investigation of special education practices in other cultures while living and studying in an international location. The course will involve a study of basic language and cultural norms of the international location prior to travel to the site. Students will gain a greater understanding of the language, culture, K-12 regular education, and K-12 special education practices in the international site, as compared to required K-12 special education practices in the United States. May be taught concurrently with SPE 540. Cannot receive credit for both SPE 540 and SPE 640. May be repeated to a maximum of six hours.

Prerequisite: SPE 310 or SPE 340 or SPE 715, or concurrent enrollment.

Typically Offered: Demand

SPE 650 - Career/Vocational Education and Transition

Credit Hours: 3

Legislation and process pertaining to transition services for individuals with disabilities will be emphasized. Students will explore

vocational service delivery options and the role of the multidisciplinary team in the development and implementation of appropriate life skill programming across the age span. May be taught concurrently with SPE 550. Cannot receive credit for both SPE 550 and SPE 650.

Prerequisite: Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 656 - Topical Issues in Special Education

Credit Hours: 1-5

To develop understanding and skills in relevant areas of special education. Each offering concerns a single topic. Variable content course. Number of class hours determined by semester hours of credit. May be repeated to a maximum of five hours when topics change. May be taught concurrently with SPE 556. Cannot receive credit for both SPE 556 and SPE 656.

Prerequisite: permission of instructor.

Typically Offered: Demand

SPE 660 - Working with Families of Exceptional Individuals

Credit Hours: 3

The relationship between families of children with special needs and various agencies is a central theme of this course. Techniques for working with a variety of families will be explored along with the impact of many ecological factors on families of students with disabilities. May be taught concurrently with SPE 560. Cannot receive credit for both SPE 560 and SPE 660.

Recommended Prerequisite: SPE 715.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 661 - Methods of Teaching Individuals with Behavior Disorders/Emotional Disturbance

Credit Hours: 3

This course will focus on application of theoretical perspectives and research-based methods of teaching students with emotional and behavior disturbances. Evaluation procedures appropriate to analysis of social behavior and monitoring behavioral change will be emphasized along with educational programming that promotes social development and inclusion. May be taught concurrently with SPE 581. Cannot receive credit for both SPE 581 and SPE 661.

Prerequisite: concurrent enrollment in SPE 491; and Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Spring

SPE 662 - Methods of Teaching Individuals with Learning Disabilities

Credit Hours: 3

Students will apply theoretical perspectives and research based methods in the development of diagnostic reports and educational plans for students with Learning Disabilities. Emphasis will be placed on the educator as a collaborator and advocate for provision of services in integrated settings; and on the educator as a specialist in evaluation, curricular accommodation, and modification. May be taught concurrently with SPE 582. Cannot receive credit for both SPE 582 and SPE 662.

Prerequisite: SPE 345 and SPE 346; and concurrent enrollment in SPE 492; and Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 663 - Methods of Teaching Individuals with Mental Retardation/Developmental Disabilities**Credit Hours:** 3

The course will stress application of theoretical perspectives and research-based methods for individuals with mental retardation and developmental disabilities. Students will conduct an analysis of assessment data, apply data in the development of diagnostic conclusions and corresponding educational plans. Emphasis will be placed on evaluation and programming for integration in school, community, and vocational settings. May be taught concurrently with SPE 583. Cannot receive credit for both SPE 583 and SPE 663.

Prerequisite: SPE 345 and SPE 346; and concurrent enrollment in SPE 493; and Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

SPE 664 - Language Development of Exceptional Students**Credit Hours:** 2

Language development and intervention for exceptional individuals. Language assessment and curriculum development for individuals with disabilities, as well as for individuals who are culturally and ethnically diverse, will be addressed. May be taught concurrently with SPE 584. Cannot receive credit for both SPE 584 and SPE 664.

Prerequisite: SPE 345 or SPE 782; and SPE 346 or SPE 792; and admitted to MSSED program in Special Education.

Lecture Contact Hours: 2

Typically Offered: Demand

SPE 667 - Introduction to the Education of Students with Behavior Disorders**Credit Hours:** 3

Students will acquire knowledge of identification, classification, diagnostic, and educational planning procedures based on the predominant conceptual models. Required for certification as teacher of students with behavior disorders. May be taught concurrently with SPE 587. Cannot receive credit for both SPE 587 and SPE 667.

Prerequisite: SPE 310 and Teacher Education students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 670 - Approaches in Mainstreaming Exceptional Students

Credit Hours: 3

Application of methods for modifying instructional materials and curriculum to help special education and regular classroom teachers meet the demands of mainstreaming. May be taught concurrently with SPE 590. Cannot receive credit for both SPE 590 and SPE 670.

Prerequisite: SPE 310 or SPE 340 and Teacher Certification students must be admitted to Teacher Education.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 671 - Clinical Practicum in Special Education

Credit Hours: 1-3

This course is open to professionals with teaching certification or students pursuing a minor requiring credit hours in addition to SPE 491, 492, or 493. Students will collect data, develop and implement individual educational programs, and submit an extensive written report. Assignments will be based on area of certification. In addition, this course is utilized for credit hours toward an Internship in Orientation and Mobility and Internship in Visual Impairment. See instructor for specific requirements. May be taught concurrently with SPE 591. Cannot receive credit for both SPE 591 and SPE 671.

Prerequisite: permission of instructor.

Typically Offered: Demand

SPE 709 - Methods of Teaching Students with Visual Impairments and Multiple Disabilities

Credit Hours: 3

This course is one of six courses offered to provide prospective teachers of children and youth with visual impairments (including those with multiple disabilities) competency-based training for work with this population in K-12 schools. Provides students with the pedagogical preparation to effectively teach Braille reading and writing, organize activities to promote literacy development, utilize assistive technology (including voice output and other computer based applications), teach compensatory skills and strategies for mathematics, development of listening skills, as well as other instructional adaptations for the curricular areas of language arts, science, and social studies. In addition, the course focuses on the teaching of social skills needed for success in education and employment. Participants will demonstrate the ability to assess, adapt, evaluate and teach academic subjects and specialized curricula for students with visual impairments, including those with multiple disabilities. Note: midterm and final examinations will be proctored.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Spring

SPE 710 - Problems in Special Education

Credit Hours: 1-3

Major issues in the field of special education designed to meet individual student needs. May be repeated to a maximum of three hours.

Typically Offered: Demand

SPE 711 - Braille Reading and Writing II

Credit Hours: 3

This advanced course in Braille reading and writing will focus on competencies in reading and writing literary Braille and the Nemeth Codes for science and mathematics. Participants will also demonstrate the ability to teach basic assistive devices, and to provide instruction in tactile graphics. An introduction to the transcription in Braille code for music and foreign languages will also be presented. Instructor and/or site based facilitators will provide monthly face to face instruction to students whenever possible. Note: midterm and final examinations will be proctored.

Prerequisite: SPE 505 or SPE 605.

Lecture Contact Hours: 3

Typically Offered: Spring

SPE 712 - Instructional Techniques and Strategies of Orientation and Mobility

Credit Hours: 6

Provides participants with the techniques and strategies used by individuals who are blind or visually impaired for independent orientation and mobility. Participants will apply the strategies of orientation and mobility techniques while using blindfolds and low vision simulators. The application of skills will be completed in indoor environments as well as residential, business, rural, and commercial areas.

Prerequisite: SPE 506 or SPE 606; and SPE 508 or SPE 608.

Lecture Contact Hours: 6

Typically Offered: Summer

SPE 714 - Professional Issues and Assessment in Orientation and Mobility with Diverse Populations

Credit Hours: 2

This course will provide participants with the overall philosophy of orientation and mobility including: the Code of Ethics and Certification standards. Current literature and issues pertinent to the profession of orientation and mobility will be discussed. This will include issues impacting programming with students with multiple disabilities, the development and administration of an effective orientation and mobility instructional program, assessment procedures, and research approaches. Note: midterm and final examinations will be proctored.

Prerequisite: SPE 505 or SPE 605; and SPE 506 or SPE 606; and SPE 508 or SPE 608; and SPE 712.

Lecture Contact Hours: 2

Typically Offered: Fall

SPE 715 - Foundations in Special Education

Credit Hours: 3

Focuses on legislation and litigation in the area of Education and Special Education and will include an overview of categorical disabilities including identification, etiology, and prevalence. The integration of individuals with disabilities across educational and community settings will be stressed along with an overview of programming validated to support specialized populations including those with disabilities and cultural and linguistic differences. In addition, the course will focus on strategies to support individuals identified as gifted as well as individuals identified at risk for school failure.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SPE 717 - Methods of Teaching Mathematics to Exceptional Individuals

Credit Hours: 3

The focus of the course will include accommodating individual differences and diversifying instruction in the area of mathematics. Students will develop performance based assessment procedures, conduct error analyses, and apply mathematics skills in program planning for the diverse learner. Cannot receive credit for both SPE 450 and SPE 717.

Prerequisite: SPE 310 or SPE 715; and SPE 345 or SPE 782; and SPE 346 or SPE 792; and admission to graduate program in Special Education.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 730 - Health, Functional, and Psychosocial Aspects of Disability

Credit Hours: 2

This course presents an interdisciplinary approach to the study of disability in education and rehabilitation. It includes information on disabilities such as traumatic brain injury, orthopedic, neuromuscular, sensory, learning, cardiovascular, psychiatric, and other selected disabilities and health conditions, including multiple disabilities. Emphasis is placed upon the characteristics of disabilities and resulting functional effects on persons with additional emphasis on the effects of multiple disabilities. This course also provides an understanding of the psychosocial and environmental factors that impact the integration into society by individuals with disabilities. It examines the philosophy of rehabilitation, major classifications and paradigms, common stereotypes, personal and societal attitudes and measurement, theories of adjustment, psychosocial losses, issues relating to sexuality, personal adjustment training, the role of the family, and the use of effective interaction skills.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2

Typically Offered: Spring

SPE 733 - Methods of Teaching Independent Living Skills to Persons with Blindness or Low Vision

Credit Hours: 3

Introduction to methodologies, concepts, and techniques to teach persons with blindness or low vision the skills and knowledge

needed to function independently in diverse settings. This course provides learners with instruction and laboratory practice in methodologies for teaching skills for independent living, including areas within the expanded core curriculum. Topics include: concept and motor development, spatial organization and orientation, personal management, home management, medical management, communication, and recreation and leisure.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Summer

SPE 740 - Verbal Behavior

Credit Hours: 3

This course focuses on Skinner's analysis of language, specifically the major verbal operants (mands, tacts, and intraverbals). Students will learn contemporary methods of assessing and teaching verbal behavior utilizing Skinner's analysis.

Prerequisite: SPE 515 or SPE 616; and SPE 516 or SPE 618; and SPE 625; and SPE 627; or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 750 - Practicum in Blindness and Low Vision

Credit Hours: 1-8

This course serves as a supervised internship for working with children with blindness or low vision, including those with multiple disabilities and/or linguistic or cultural differences, under a Cooperating Teacher of Children with Visual Impairments and University Supervisor. Students observe, teach, and participate in professional activities in teaching children with blindness or low vision. Students work with individuals or groups during which they are provided the opportunity to apply principles and methods of teaching children with blindness or low vision, including those with additional disabilities. Students also acquire behavior management, instructional planning, and evaluation strategies. Variable credit hour course. Number of contact hours determined by semester hours of credit. May be repeated to a maximum of eight hours.

Prerequisite: SPE 605 and SPE 606 and SPE 607 and SPE 608 and SPE 709 and SPE 711; and permission of instructor.

Typically Offered: Demand

SPE 757 - Language Development: Deaf and Hard of Hearing I

Credit Hours: 3

Theories and research into language development in individuals with hearing compared to individuals who are deaf or hard of hearing are explored with implications for assessment and intervention. Differences related to language development are discussed for application and planning instruction. Teaching and facilitating language using instructional practices and techniques in content areas are presented for reflection, discussion, and activities.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 758 - Early Intervention Assessment: Deaf and Hard of Hearing

Credit Hours: 2

Methods and techniques for working with families as well as in the educational environment of infants and children who are deaf or hard-of-hearing from birth through the beginning elementary school years. Emphasis on methods and procedures of formal and informal assessment.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 2

Typically Offered: Summer

SPE 759 - Early Intervention: Deaf and Hard of Hearing

Credit Hours: 2

Methods and techniques for working with families who have infants, toddlers and/or young children who are deaf or hard of hearing from birth to the beginning elementary school years in both natural and educational environments. Emphasis on methods and procedures for intervention, interpretation of assessment data and prescriptive instruction.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 2

Typically Offered: Summer

SPE 760 - Internship-Orientation and Mobility

Credit Hours: 3

This course requires a supervised internship experience in an organization or school that serves individuals with blindness or low vision, during which the opportunity is provided for practical application of principles and methods of instruction in orientation and mobility; including techniques of safe, and independent travel. Completion of 350 hours of supervised fieldwork by a certified orientation and mobility specialist (COMS).

Prerequisite: SPE 606 and SPE 608 and SPE 712 and SPE 714 or concurrent enrollment in SPE 714; and admitted to the Special Education/Orientation and Mobility program; and permission of instructor.

Lab Contact Hours: 6

Typically Offered: Fall, Spring

SPE 761 - Language Development: Deaf and Hard of Hearing II

Credit Hours: 3

Methods, strategies, and techniques of language development that may be applied in assessing and instructing students with hearing losses.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Summer

SPE 762 - Speech Development: Deaf and Hard of Hearing I

Credit Hours: 3

Theories of speech development as they apply to persons who are deaf or hard of hearing. Phonetics including transcription. Anatomy and physiology of the speech mechanisms. Techniques for analyzing speech will be stressed.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Spring

SPE 763 - Auditory Development: Deaf and Hard of Hearing

Credit Hours: 3

Development of listening skills across settings by maximizing use of residual hearing and hearing technologies, notably cochlear implants. Auditory re/habilitation assessment, intervention, and principles as it relates to individuals who are deaf or hard of hearing and their families with emphasis on a developmental model for the acquisition of speech and language. Challenges with classroom acoustics and ways to optimize the classroom listening environment.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Spring

SPE 764 - Instructional Strategies: Deaf and Hard of Hearing

Credit Hours: 3

Development of instructional strategies for teaching students who are deaf or hard of hearing with an emphasis on differentiated instruction. Focus on upper elementary through the secondary school levels, including career education.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 765 - Reading: Deaf and Hard of Hearing

Credit Hours: 3

Theories of reading with an emphasis on adaptations for assessment and intervention for students who are deaf or hard of hearing. Introduction to available resources.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 766 - Counseling: Deaf and Hard of Hearing

Credit Hours: 3

Theoretical bases of counseling and the role of the educator in the counseling process. Emphasis on the counseling process as it affects the educational, personal, social, and familial adjustment of individuals who are deaf or hard of hearing.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Lecture Contact Hours: 3

Typically Offered: Summer

SPE 776 - Cognitive Behavioral Strategies for Children and Adolescents with Autism

Credit Hours: 3

This course will focus on cognitive and behavioral research-based practices for children and adolescents with Autism Spectrum Disorders. Specific focus will be on the social learning deficits in Autism and how the executive functioning and theory of mind are impacted.

Prerequisite: SPE 515 or SPE 616; SPE 525 or SPE 625, or permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 777 - Advanced Readings in Autism and Behavior Analysis

Credit Hours: 3

Students will critically evaluate peer-reviewed behavior-analytic research and develop modifications of procedures reported in research for use in their desired or current area of practice, specifically related to autism spectrum disorders. Empirical research on advanced topics in behavior analysis will be identified, and students will critique experimental methodology and evaluate the extent to which methods and results answer experimental questions. Students will also learn to locate high-quality research on topics related to their area of practice. Class discussions will require a high degree of student participation and the course will be writing intensive.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 779 - Application of Technology in Special Education

Credit Hours: 3

This course is designed to provide teachers with an in depth treatment of the research, theory, and application of computers and related technologies in the instruction of children and adults with learning, behavior, sensory, motor and communication disabilities. Students will incorporate the principles of reflective practice as it pertains to the assessment, selection of devices, and evaluation of assistive technologies for individuals with disabilities. The General Learning Outcomes 5, 9, and 10 presented in the Conceptual Framework of the Educator Preparation Provider (EPP) are the over arching tenets which guided the development and ongoing revisions to this course. Students acquire competencies related to the use of assistive devices and emerging technologies through participation in a 60 hour comprehensive field based experience in conjunction with schools and other agencies which serve individuals with disabilities.

Prerequisite: admission to the graduate program in Special Education or Early Childhood Special Education.

Lecture Contact Hours: 3

Typically Offered: Summer

SPE 780 - Impact of Contemporary Issues and Diversity in Special Education

Credit Hours: 3

Analysis of trends, issues, and research in the field of special education will be reviewed and discussed. A comprehensive overview of local, state, and federal legislation and the impact on our public school special educational programs for children with disabilities will be discussed and analyzed. A focus on diversity aspects involved in contemporary issues in special education and disability services will be addressed across all topics. Historical and current litigation involving children with disabilities will be reviewed and discussed.

Prerequisite: permission of instructor.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

SPE 781 - Educational Consultation

Credit Hours: 3

Seeks to develop students' skills in collaboration consultation. Emphasis will be placed on the development of innovative service delivery options, personnel training, and development of communication skills. Students will apply theory to practice in a field experience.

Prerequisite: admission to the graduate program in Special Education.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall

SPE 782 - Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities

Credit Hours: 4

Students will observe and participate in a variety of assessment and multidisciplinary team activities. Development of leadership skills will be stressed through participation in clinical field experiences involving standardized and performance evaluation typically administered to identify students with special needs, analysis and synthesis of assessment data in clinical staffings, analysis of data for on-going progress monitoring, and development of individualized educational programs.

Prerequisite: SPE 310 or SPE 340 or SPE 715; and admission to the graduate program in Special Education or Early Childhood Special Education.

Lecture Contact Hours: 2 Lab Contact Hours: 4

Typically Offered: Fall, Spring

SPE 783 - Advanced Assessment to Support Individuals with Developmental and Sensory Disabilities

Credit Hours: 3

Students will observe and participate in a variety of assessment and multidisciplinary team activities. Development of leadership skills will be stressed through participation in field experiences involving norm referenced and curriculum based evaluation of individuals with various sensory and developmental disabilities. Analysis and synthesis of assessment data in clinical staffings and development of individual educational plans will be required. Students enrolled in this course should have prior knowledge of assessment including administration, scoring, and interpretation.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 Lab Contact Hours: 4

Typically Offered: Demand

SPE 784 - Advanced Procedures in Teaching Students with Mild to Moderate Disabilities

Credit Hours: 3

The primary purpose of the course is to provide students with the knowledge and skills necessary for development and application of curricula appropriate to the needs of individuals with mild to moderate disabilities. Emphasis will be placed on the philosophical basis of curricula as well as principles of curricula design. Students will apply knowledge and skills in 60 hours of required field experiences.

Prerequisite: SPE 780 and SPE 782 and SPE 792; and SPE 616 or PSY 614.

Recommended Prerequisite: SPE 517 or SPE 617.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Spring

SPE 785 - Advanced Procedures in Development Disabilities

Credit Hours: 3

The primary purpose of the course is to provide students with the knowledge and skills necessary for development and application of curricula and methods appropriate to the needs of individuals with mental retardation and other developmental disabilities. Emphasis will be placed on the empirical basis of the procedures and on life referenced programming. Students will apply knowledge and skills in field based activities supervised by the instructor.

Prerequisite: admission to the graduate program in Special Education; and SPE 783.

Lecture Contact Hours: 2 Lab Contact Hours: 2

Typically Offered: Demand

SPE 787 - Advanced Behavioral Analysis and Intervention

Credit Hours: 3

Study of human behavior. The goal of applied behavior analysis is to seek understanding and improvement of human behavior. The goals of this course is to prepare graduate students to be contributing professionals in the area of applied behavior analysis; specifically, to become reflective behaviorists. Students will learn to identify, measure, and record the occurrence and nonoccurrence of behavior. Students will be expected to implement applied behavioral strategies and learn how to evaluate the success of single-case designs as part of a minimum 60 hour field experience.

Prerequisite: admission to the graduate program in Special Education or permission of instructor; and SFR 780 and SPE 616 and SPE 780 and SPE 782 and SPE 792.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 788 - Research Seminar in Special Education

Credit Hours: 3

An in-depth study of a chosen topic in special education leading to the guided development and completion of an extensive research paper or major creative work as directed by the instructor.

Prerequisite: admission to the graduate program in Special Education or permission of instructor; and SFR 780; and SPE 619 and SPE 621 or SPE 709; and SPE 780 and SPE 782 or SPE 783.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPE 789 - Supervised Teaching-The Exceptional Child

Credit Hours: 3

Student observes, teaches, and/or participates in supervised teaching activities in Special Education under the direction of a cooperating supervisor and University supervisor. Students will work with individuals or groups demonstrating effective teaching and behavior management techniques, as well as expertise in instructional planning and evaluation. Students must complete required special education program assessments and Missouri Department of Elementary and Secondary Education assessment as identified by the instructor.

Prerequisite: permission of instructor.

Lab Contact Hours: 6

Typically Offered: Demand

SPE 790 - Educational Workshop

Credit Hours: 1-5

Workshop to upgrade understandings and skills concerned with the improvement of elementary or secondary teaching procedures, curriculum, supervision, administration or guidance. Each workshop will be concerned with a single topic. Number of class hours determined by length of workshop. May be repeated to a maximum of five hours. 30 clock hours equal one semester hour.

Typically Offered: Demand

SPE 791 - Clinical Practicum for Individuals with Autism and Challenging Behavior

Credit Hours: 1-6

This course will involve supervised clinical settings with individuals with Autism and challenging behaviors. Students will conduct a variety of assessments, including functional behavioral assessments, curriculum-based measurements, and social skills profiles. Students will also develop and/or implement research-based strategies with individuals with Autism. Finally, students will participate in a multidisciplinary assessment model to include families and professionals from a variety of disciplines. Students will be required to prepare written reports of professional quality with results of assessments and research-based recommendations.

Prerequisite: SPE 525 or SPE 625; and SPE 516 or SPE 618; or permission of instructor.

Typically Offered: Demand

SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab

Credit Hours: 2

Students will conduct standardized and informal assessments in the field as part of a 60 hour practicum/lab experience and develop a comprehensive case history. Emphasis will be placed on development of validated educational programs.

Prerequisite: admission to the graduate program in Special Education or Early Childhood Special Education; and concurrent enrollment with SPE 782 or SPE 783.

Lab Contact Hours: 4

Typically Offered: Spring

SPE 794 - Research Methodology and Statistics in Educational Studies

Credit Hours: 3

The purpose of this course will be to provide students with a strong foundation in educational research methodologies appropriate to low-incidence and small-n populations, while also developing understanding and knowledge of larger population studies. This course is designed to provide an introduction to traditional methodologies with an emphasis on four that have been identified as having clear implications for improvement in the field of special education, including: (a) experimental group, (b) correlational, (c) single subject, and (d) qualitative designs. Students will be introduced to relevant statistical procedures that are applicable to each of the four research methodologies.

Prerequisite: admission to Special Education graduate program.

Lecture Contact Hours: 3

Typically Offered: Demand

SPE 796 - Supervised Teaching

Credit Hours: 8

The assumption of teaching responsibilities at an approved practicum site under the direction of a University CED certified supervisor and practicum site instructor. Students enrolled in this course may be required to have a physical examination,

including a TB test before placement in the practicum setting.

Prerequisite: admission to the Special Education graduate program with an option in Education of Deaf and Hard of Hearing or the graduate certificate in Education of Deaf and Hard of Hearing.

Typically Offered: Demand

SPE 799 - Thesis

Credit Hours: 1-6

Independent research and study connected with preparation of thesis. May be repeated to a maximum of six hours.

Prerequisite: admission to the graduate program in Special Education or Applied Behavior Analysis; and SFR 780 and SPE 780 and SPE 787 and SPE 789; and SPE 782 or SPE 783; and SPE 784 or SPE 785.

Typically Offered: Demand

SPE 850 - Introduction to Statistics

Credit Hours: 3

Statistical techniques used in educational research and assessment. Course will provide an overview of scaling techniques, sampling, descriptive techniques, inferential techniques (to include t and x²), reliability and validity.

Lecture Contact Hours: 3

Typically Offered: Fall

SPE 886 - School Psychological Examiner Practicum

Credit Hours: 3

Supervised practicum in the administration and interpretation of individual achievement tests, individual intelligence tests, formal and informal diagnostic procedures and diagnostic interviewing techniques in educational or clinical settings. Focus of the course will be on the formation of eligibility determinations using traditional and contemporary models of diagnostic decision-making, including Multi-Tiered Systems of Support and/or Response-to-Intervention, and on the development of instructional plans or IEPs from diagnostic data attained. Graded Pass/Not Pass only.

Prerequisite: SPE 782 and SPE 787 and SPE 792 and PSY 720, or permission of school.

Lecture Contact Hours: 3

Typically Offered: Demand

Spanish

SPN 610 - Advanced Translation

Credit Hours: 3

Builds on the translation and interpreting skills acquired in SPN 410. Students will be exposed to a variety of translation theories and methods and will increase their overall language proficiency as they gain further practical translation experience in a number of genres. May be taught concurrently with SPN 510. Cannot receive credit for both SPN 510 and SPN 610.

Lecture Contact Hours: 3

Typically Offered: Demand

SPN 624 - Advanced Topics in Hispanic Linguistics

Credit Hours: 3

This course focuses on specific issues in Hispanic linguistics with an emphasis on their applicability to learning and teaching Spanish. Topics may include the study of Spanish in its social and political contexts, Spanish phonetics and phonology, Spanish syntax and morphology, language variation and change in the Spanish-speaking world, historical perspectives, and developments in theoretical and applied Spanish linguistics. May be taught concurrently with SPN 524. Cannot receive credit for both SPN 524 and SPN 624.

Lecture Contact Hours: 3

Typically Offered: Spring Odd

SPN 690 - Advanced Spanish Grammar

Credit Hours: 3

Students improve their mastery of complex grammatical features in Spanish through analysis of authentic written texts and spoken language and through practice and application. They will also explore theories pertaining to the acquisition of language structures and related approaches to teaching grammar to second language learners. May be taught concurrently with SPN 590. Cannot receive credit for both SPN 590 and SPN 690.

Lecture Contact Hours: 3

Typically Offered: Spring

SPN 725 - Seminar in Hispanic Literature and Culture

Credit Hours: 3

This course will enhance students' language proficiency and cultural competence through the interpretation and analysis of selected literary, philosophical, and cultural texts from the Hispanic tradition. Variable content course. May be repeated once with changed content.

Lecture Contact Hours: 3

Typically Offered: Demand

SPN 735 - Advanced Spanish Proficiency

Credit Hours: 3-12

This course designation is used to grant credit for prior learning on the basis of established proficiency assessments. No more than three hours of SPN 735 credit may be applied toward the requirements of any master's program or certificate.

Typically Offered: Demand

Social Work

SWK 602 - Rural Health

Credit Hours: 3

This course offers a study of health care delivery in rural communities. It includes theoretical foundations, cultural considerations and specific characteristics of rural environments and people. Local and international perspectives will be explored. This course has a community experience component. Identical with NUR 632. Cannot receive credit for both NUR 632 and SWK 632. May be taught concurrently with SWK 502. Cannot receive credit for both SWK 502 and SWK 602.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SWK 643 - Non-Profit Management in the Health and Human Services

Credit Hours: 3

The purpose of this course is to lay a leadership and management foundation for those in social work and the human services professions from the nonprofit/social or public sectors. The history and scope of the U.S. nonprofit sector, as well as contemporary theories of nonprofit enterprise, governance and leadership, ethics, marketing, advocacy techniques, decision-making models and current ideas about possible futures for the sector will be presented. Students will leave the course with a solid understanding of nonprofit /social sector organization, and develop an understanding of his or her management style and philosophy. May be taught concurrently with SWK 543. Cannot receive credit for both SWK 543 and SWK 643.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 644 - Grant Writing in the Health and Human Services

Credit Hours: 3

This course offers an interdisciplinary approach to understanding grant writing and how human service professionals can collaborate for successful proposal writing. Grant writing in the Health and Human Services will focus on practical skills needed to develop proposals, budgets, and evaluation plans. Attention will be given to preparing a competitive grant proposal. Grant writing is related to human services that stress access to and availability of resources. The needs of culturally diverse groups or communities will be discussed in this course, along with the particulars of proposals that may be most effective in meeting such needs. May be taught concurrently with SWK 595. Cannot receive credit for both SWK 595 and SWK 644.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 696 - Health Literacy in the Human Services

Credit Hours: 3

This course offers an interdisciplinary approach to understanding functional health literacy and how the public's literacy skills affect interactions with health and human services professionals. Includes an examination of the data for national and

international literacy levels and populations at risk for low literacy; research on health literacy; assessment tools; and practical techniques for addressing literacy issues in spoken and written communications at the practitioner and organizational levels. Identical with PBH 699; may be taught concurrently with SWK 599 or PBH 699. Can only receive credit for one of the following: IPE 599, SWK 599, SWK 696, or PBH 699.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 699 - Special Topics

Credit Hours: 1-3

Selected topic of advanced content in social work, relevant to fields of practice or practice methodologies. May be repeated to a maximum of six hours as topics change. May be taught concurrently with SWK 597. Cannot receive credit for both SWK 597 and SWK 699.

Typically Offered: Demand

SWK 705 - Human Behavior in the Social Environment

Credit Hours: 3

Content on life span development and the influence of various systems on the individual.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 710 - Generalist Social Work Practice with Individuals

Credit Hours: 3

Within a generalist framework, course provides an ethically-based, theory-driven, culturally competent approach to delivering professional social work services to individuals with varied issues and practice settings.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 715 - Social Welfare Policy and Services

Credit Hours: 3

Covers the historical development, philosophical orientation, and analysis of social welfare policy and services in the United States. Examines social welfare policy in multiple areas.

Prerequisite: admission to MSW program or permission.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 725 - Generalist Social Work Practice with Families and Groups

Credit Hours: 3

Within a generalist framework, this course focuses on basic skills and concepts related to social work practice with groups and families. Topics include group facilitation process and tasks, contrast between non-kin groups and family sessions, and strategies for working with families.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 726 - Generalist Social Work Practice with Communities and Organizations

Credit Hours: 3

Uses social work methods to focus on the dynamics associated with organizational and community generalist practice. This course provides a knowledge base (i.e., theory, research, and practice wisdom), values, and practice skills for the generalist social work profession. Concentration will be on social work practice occurring with organizations and communities.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 730 - Diversity and Social Justice

Credit Hours: 3

Using a social work strengths perspective and the ecological system theory, the course explores multiple dimensions and intersectionality of diversity, and social, economic, and environmental justice in a pluralistic and increasingly globalized society.

Prerequisite: admission to the MSW program or permission of school.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 735 - Clinical Interventions with Weight Concerns

Credit Hours: 3

The purpose of this course is to recognize the role weight bias and disordered eating plays in social work practice. It includes learning the background of weight stigma, understanding the anti-fat phobia movement, and how disordered eating is diagnosed and treated. Students will leave this course with a solid awareness of weight-based discrimination and how to integrate weight-inclusive practices.

Lecture Contact Hours: 3

Typically Offered: Demand

SWK 736 - Trauma-Informed Social Work Practice

Credit Hours: 3

This course is designed to examine social work skills and provide a framework for practice with individuals, families, organizations, and communities who are coping with trauma. Trauma is surrounded by a complex set of issues that will be addressed, including treatment choices, sociocultural forces that shape care provision and coping, multicultural perspectives on trauma, psychosocial challenges, and secondary stresses connected with this type of work.

Lecture Contact Hours: 3

Typically Offered: Summer, Demand

SWK 737 - Grief and Loss Across the Life Span

Credit Hours: 3

Issues pertaining to loss and grief are core in nearly every clinical situation that social workers address. Loss occurs throughout the life cycle. The course will start with an overview of loss as a normal and necessary part of life and growth. Loss and grief issues include but are not limited to dying and bereavement. Issues such as divorce, loss of a job, effects of a disaster, declines in functional health, acute illnesses, and chronic and life-threatening diseases are all examples of losses other than death. This course will focus on the experiences of loss, grief, and bereavement as it is viewed by individuals, families, and loved ones.

Prerequisite: admission into the MSW program.

Lecture Contact Hours: 3

Typically Offered: Summer

SWK 742 - Substance Use and Social Work Practice

Credit Hours: 3

This course provides an opportunity for the students to understand the problems of alcohol and drug use and dependence, and the impact on individuals, families, and the broader community.

Lecture Contact Hours: 3

Typically Offered: Demand

SWK 743 - Management and Program Development in Human Service

Credit Hours: 3

Develop knowledge and skills for effective supervisors and administrators in human service organizations. Students will also learn grant proposal writing and develop an understanding of their management style and philosophy.

Lecture Contact Hours: 3

Typically Offered: Demand

SWK 745 - Regular Practicum I

Credit Hours: 7

Students integrate Generalist level competencies with supervised experiences at a community agency. Students must complete 400 hours in placement; required practicum liability insurance is included in the supplemental course fee.

Prerequisite: admission to MSW program; and field coordinator approval; and completion of, or concurrent enrollment in, all other generalist courses.

Typically Offered: Spring

SWK 747 - Regular Seminar I

Credit Hours: 2

Seminar class with practicum supervision enhances the student's application of all previous generalist coursework with seminar assignments and activities of the practicum experience

Prerequisite: admission to MSW program; and field coordinator approval; and completion of, or concurrent enrollment in, all other generalist courses.

Typically Offered: Spring

SWK 748 - Extended Practicum I

Credit Hours: 7

Students integrate generalist level competencies with supervised experiences at a community agency. Students must complete 400 hours in placement; required practicum liability insurance is included in the supplemental course fee. May be repeated to a maximum of seven hours.

Prerequisite: admission to MSW program; and practicum coordinator approval; and completion of, or concurrent enrollment in, all other generalist courses.

Typically Offered: Spring, Summer

SWK 749 - Extended Seminar I

Credit Hours: 2

Seminar class with practicum supervision enhances the student's application of all previous generalist coursework with seminar assignments and activities of the practicum experience. May be repeated to a maximum of two hours.

Prerequisite: admission to MSW program; and practicum coordinator approval; and completion of, or concurrent enrollment in, all other generalist courses.

Typically Offered: Spring, Summer

SWK 750 - Social Work Practice I: Advanced Generalist Practice with Individuals

Credit Hours: 3

This advanced practice course provides students with theories and skills for working with individuals from an advanced generalist perspective. By the end of the course, students will demonstrate ethically based, culturally informed practice with

individuals.

Prerequisite: admission to MSW program; and Advanced Standing or completion of all foundation coursework.

Lecture Contact Hours: 3

Typically Offered: Summer

SWK 754 - Advanced Clinical Social Work Assessment

Credit Hours: 3

Examines advanced topics related to individual and family-based assessment. Students deepen critical thinking as advanced generalist practitioners, learn when to use various clinical assessment tools (e.g., DSM), and develop skills in data collection, organization, and interpretation.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 755 - Social Work Practice II: Advanced Generalist Practice with Families

Credit Hours: 3

This advanced practice course provides students with theories and skills for working with families from an advanced generalist perspective. By the end of the course, students will demonstrate ethically based, culturally informed practice with families.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 756 - Social Work Practice III: Advanced Generalist Practice with Groups

Credit Hours: 3

This advanced practice course provides students with theories and skills for working with groups from an advanced generalist perspective. By the end of the course, students will demonstrate ethically based, culturally informed practice with groups.

Prerequisite: SWK 754 and SWK 755; and admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 757 - Social Work Practice IV: Evidence-Informed Practice with Communities and Organizations

Credit Hours: 3

This advanced practice course provides students with theories, knowledge, and skills for evidence-informed practice with communities and organizations from an advanced generalist perspective. By the end of the course, students will demonstrate ethically based, culturally informed practice with communities and organizations and be able to apply ethical research principles

to research methodology, design, and analysis to make evidence-informed recommendations that shape advanced generalist social work practice.

Prerequisite: SWK 755; and admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Spring

SWK 760 - Advanced Policy and Social Justice

Credit Hours: 3

Students examine policies that affect client systems, and how these policies translate into programs and delivery systems in the United States and other countries. The course expands knowledge of the interrelatedness of diversity, policy, human rights and social justice.

Prerequisite: admission to MSW program.

Lecture Contact Hours: 3

Typically Offered: Fall

SWK 780 - Regular Practicum II

Credit Hours: 8

Students integrate advanced generalist level competencies with supervised experiences at a community agency. Students must complete 500 hours in placement; required practicum liability insurance is included in the supplemental course fee

Prerequisite: admission to MSW program; and permission of practicum coordinator; and completion of, or concurrent enrollment in, all other advanced generalist courses

Typically Offered: Spring

SWK 781 - Regular Seminar II

Credit Hours: 2

Seminar class with practicum supervision enhances the student's application of all previous advanced generalist coursework with seminar assignments and activities of the practicum experience.

Prerequisite: admission to MSW program; and permission of field coordinator; and completion of, or concurrent enrollment in, all other advanced generalist courses.

Lecture Contact Hours: 2

Typically Offered: Spring

SWK 782 - Extended Practicum II

Credit Hours: 1-8

Students integrate advanced generalist level competencies with supervised experiences at a community agency. Students must complete 500 hours in placement; required practicum liability insurance is included in the supplemental course fee. Students integrate advanced generalist level competencies with supervised experiences at a community agency. May be repeated to a

maximum of eight hours.

Prerequisite: admission to MSW program; and permission of practicum coordinator; and completion of, or concurrent enrollment in, all other advanced generalist courses.

Typically Offered: Spring, Summer

SWK 783 - Extended Seminar II

Credit Hours: 1-2

Seminar class with practicum supervision enhances the student's application of all previous specialist coursework with seminar assignments and activities of the practicum experience. May be repeated to a maximum of two hours.

Prerequisite: admission to MSW program; and permission of practicum coordinator; and completion of, or concurrent enrollment in, all other advanced generalist courses.

Typically Offered: Spring, Summer

Sports and Recreation Administration

SPR 615 - Risk Management for Sport and Recreation Agencies

Credit Hours: 3

This course is designed to look at the various risk management concepts, laws, and administrative practices that address the legal environment of sport and recreation agencies within the scope of our legal culture. Our Constitution, legal liability related to safe environs, crowd control, transportation, employee rules and regulations, workplace risk, and the general management of risk situations and aspects will be the central core of this course. May be taught concurrently with SPR 415. Cannot receive credit for both SPR 415 and SPR 615.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPR 623 - Administration of Sport and Recreation Agencies

Credit Hours: 3

Presentation of administrative principles of sport and recreation oriented agencies. Specific approaches to financing, personnel budgets, facility, operation, policy development, departmental structure, public relations, legal aspects, and evaluation procedures are presented. May be taught concurrently with SPR 423. Cannot receive credit for both SPR 423 and SPR 623.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

SPR 651 - Outdoor Leadership

Credit Hours: 3

This course emphasizes experiential teaching/learning under field conditions which builds upon the student's prior outdoor study and experience. The result is a practical group experience in the outdoors spent enjoyably and safely with minimum harm to the

environment. This environmental stewardship course stresses leadership, decision making, low impact camping, sound expedition behavior and environmental ethics. Field trips will be required. May be repeated once. May be taught concurrently with SPR 451. Cannot receive credit for both SPR 451 and SPR 651.

Prerequisite: permission of instructor.

Lecture Contact Hours: 1 **Lab Contact Hours:** 4

Typically Offered: Demand

Technology and Construction Management

TCM 602 - Healthcare Facility Management

Credit Hours: 3

Examines facility management attributes related to maintenance and operations; regulatory compliance; planning, design and construction; and administration unique to healthcare. May be taught concurrently with TCM 502. Cannot receive credit for both TCM 502 and TCM 602.

Prerequisite: permission.

Lecture Contact Hours: 3

Typically Offered: Demand

TCM 611 - Product Design and Development

Credit Hours: 3

An overview of the product development process from concept generation to design in an entrepreneurial environment. The perspectives of marketing, design and manufacturing are blended into a single approach of product development. Provides students with an appreciation for the realities of industrial practice and for the complex and essential roles played by the various members of product development teams. May be taught concurrently with TCM 511. Cannot receive credit for both TCM 511 and TCM 611.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 645 - Program and Portfolio Management

Credit Hours: 3

Provides an overview of program and portfolio management with a primary focus on overall success of the organization. Offers students an opportunity to develop a foundational understanding of program and portfolio management that aligns with strategic objectives and goals as well as organizational values and culture. May be taught concurrently with TCM 545. Cannot receive credit for both TCM 545 and TCM 645.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 651 - Project Schedule and Cost Management

Credit Hours: 3

The use of schedule and cost management tools and techniques to deliver projects on time and within budget. Topics include resource-loaded schedule development, baseline budgeting, cost estimating, analysis of alternatives, decision-making under risk, and cost and schedule management through earned value management. May be taught concurrently with TCM 551. Cannot receive credit for both TCM 551 and TCM 651.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

TCM 655 - Statistical Quality Control and Design of Experiments

Credit Hours: 3

Topics include the practice of statistical techniques widely used in industry to improve quality, reduce costs, and optimize processes. Minimization of variability and basic approaches to statistically designed experiments are emphasized. May be taught concurrently with TCM 555. Cannot receive credit for both TCM 555 and TCM 655.

Lecture Contact Hours: 3

Typically Offered: Demand

TCM 696 - Readings in Technology Management

Credit Hours: 1-3

Directed readings for individuals requiring additional depth or breadth of study. Outline of study must be approved prior to enrolling. May be repeated to a maximum of six hours. May be taught concurrently with TCM 596. Cannot receive credit for both TCM 596 and TCM 696.

Prerequisite: permission of school director.

Typically Offered: Fall, Spring

TCM 697 - Topics in Technology Management

Credit Hours: 1-3

A variable content course with topics that depend on faculty and student interests. Consult the semester class schedule for the current offering under this number. May be repeated to a maximum of nine hours when content varies. May be taught concurrently with TCM 597. Cannot receive credit for both TCM 597 and TCM 697.

Typically Offered: Demand

TCM 701 - Foundations of Project Management

Credit Hours: 3

This course provides a comprehensive overview of project management. The culture, principles, and basic techniques of project management are addressed using the project lifecycle as the primary organizational guideline. The project management functions of planning, organizing, motivating and controlling with an emphasis on the application to business and technology are explained. Basic tools of project management such as work breakdown structure, scheduling, contracting, earned value analysis, and risk management are explained and demonstrated.

Prerequisite: acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 703 - Project Risk and Quality Management

Credit Hours: 3

This course explores the use of project risk and quality management tools and techniques at each stage of the project lifecycle. It also includes processes and instructions to develop project risk and quality management plans with in-depth analysis of the steps and elements to integrate them into the overall project plan.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 710 - Project Leadership and Communications Management

Credit Hours: 3

A practical and relevant course that focuses on the leadership and communication needed to manage a project successfully. Prepares students to handle project problems related to communication, motivation, performance, behavior, and crisis. Students analyze real life scenarios and develop solutions that are supported by the latest research to develop skills necessary for strong, effective project leadership and communications management.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 720 - Project Management Training

Credit Hours: 3

This course provides a comprehensive overview of advanced project management concepts and provides preparation for PMP or CAPM certification. The course focuses on project management functions and process groups.

Prerequisite: acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Spring, Summer

TCM 726 - Seminar in Project Management

Credit Hours: 3

Presentation and discussion of professional or technical problems in the organization and management of projects. Students are expected to demonstrate the ability to apply the knowledge and experience gained in their program of study to the critical evaluation and analysis of the theory, research and practice of project management.

Prerequisite: TCM 701; total of 21 graduate hours in the Project Management MS program of study; and permission of Project Management Program Director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 740 - Agile Management of Innovation and Technology Seminar

Credit Hours: 3

This course focuses on agile innovation and technology management in organizations. It provides an overview of the fundamentals of agile project management. Builds primarily on broad models of technological evolution and organizational change. Students are expected to demonstrate the ability to apply the knowledge and experience gained in their program of study to the critical evaluation and analysis of the theory, research, and practice of agile project management.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring, Summer

TCM 750 - Project Management Capstone

Credit Hours: 3

This course builds upon the foundation of prerequisite courses by discussing advanced problems encountered in the discipline of project management including practical examination of projects using the criteria of project excellence and project management maturity models. Students are expected to demonstrate the ability to apply the knowledge and experience gained in their program of study to the critical evaluation and analysis of the theory, research and practice of project management.

Prerequisite: TCM 701 and a total of 12 graduate hours in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Fall, Spring

TCM 760 - Special Investigations

Credit Hours: 1-3

The student in consultation with the advisor selects for in-depth study an area of project management determined by the interest and background of the student. May be repeated, but no more than three hours may be counted as credit toward a project management graduate program.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Typically Offered: Demand

TCM 792 - Graduate Internship**Credit Hours:** 3

Educational experience in cooperation with the student's full-time employer including written, oral, and classroom assignments related to workplace improvement. May be repeated, but no more than three hours may be counted as credit toward a project management graduate program.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Lecture Contact Hours: 3

Typically Offered: Demand

TCM 798 - Research**Credit Hours:** 1-3

Supervised research in project management. May be repeated, but no more than three hours may be counted as credit toward a project management graduate program. Graded Pass/Not Pass only.

Prerequisite: TCM 701 and acceptance in the Master of Science in Project Management or Graduate Certificate in Project Management programs; or permission from the program director.

Typically Offered: Demand

TCM 799 - Thesis**Credit Hours:** 1-3

Preparation of a thesis. May be repeated, but no more than three hours may be counted as credit toward a master's degree. Graded Pass/Not Pass only.

Prerequisite: TCM 701; and acceptance in the Master of Science in Project Management program; and permission from the program director.

Typically Offered: Demand

Theatre**THE 605 - Theatre for Children and Youth**

Credit Hours: 3

Special training and techniques involved in the preparation and development of productions for, and by, children and youth. Activities include directing, scenic and costume design, scripting, and a study of the history, literature and research of the field. May be taught concurrently with THE 505. Cannot receive credit for both THE 505 and THE 605.

Lecture Contact Hours: 3

Typically Offered: Fall

THE 606 - Creative Dramatics**Credit Hours:** 3

The art of creative drama and how it can be used in the school and community with children, youth, adults, and "special populations." Students teach their own classes in creative drama during the latter part of the semester. May be taught concurrently with THE 506. Cannot receive credit for both THE 506 and THE 606.

Lecture Contact Hours: 3

Typically Offered: Spring

THE 611 - Solo Performance**Credit Hours:** 3

Theoretical and practical knowledge in developing performance skills for one-person shows, extended literary performances, performance art, stand-up comedy, personal narrative and other performer-composed theatrical texts. May be taught concurrently with THE 510. Cannot receive credit for both THE 510 and THE 611.

Lecture Contact Hours: 3

Typically Offered: Spring

THE 616 - Theatre for Social Change**Credit Hours:** 3

Theoretical and practical knowledge for developing performances for, about, and in partnership with community nonprofit organizations. Includes journaling, interviewing, scripting, and directing original material. Students use devising techniques to create and rehearse scenes for social change. May be taught concurrently with THE 515. Cannot receive credit for both THE 515 and THE 616.

Lecture Contact Hours: 3

Typically Offered: Fall

THE 623 - Auditioning and Acting for the Camera**Credit Hours:** 3

A practical immersion into the on-camera market for the professional actor. Auditioning and acting skills for single and multi-

camera formats including commercials, television comedy, television drama, industrials, film, and other digital mediums. Also covers industry and marketing logistics in relation to the on-camera market. May be taught concurrently with THE 522. Cannot receive credit for both THE 522 and THE 623.

Prerequisite: permission of instructor.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring

THE 631 - Theatre History I

Credit Hours: 3

Traces the important periods in the development of theatre from its beginning through the English Restoration. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 541. Cannot receive credit for both THE 541 and THE 631.

Lecture Contact Hours: 3

Typically Offered: Fall

THE 632 - Theatre History II

Credit Hours: 3

Traces the important periods in the development of theatre from the 18th century to the present. Through analysis of conventions of staging and dramatic literature, examines the aesthetic, cultural, ethical, and social dimensions of theatre in different cultures and time periods. May be taught concurrently with THE 542. Cannot receive credit for both THE 542 and THE 632.

Lecture Contact Hours: 3

Typically Offered: Spring

THE 633 - Development of Modern Theatre

Credit Hours: 3

Examines the aesthetic, cultural, ethical, and social dimension of modern theatre, from the development of naturalism to Theatre of the Absurd, through analysis of staging practices, theatrical theory, and dramatic literature. May be taught concurrently with THE 543. Cannot receive credit for both THE 543 and THE 633.

Lecture Contact Hours: 3

Typically Offered: Fall Odd

THE 634 - Contemporary Theatre

Credit Hours: 3

Examines the aesthetic, cultural, ethical, and social dimension of theatre and drama since 1960. Emphasis will be on theatre as an art form and a social and cultural institution. May be taught concurrently with THE 545. Cannot receive credit for both THE 545

and THE 634.

Lecture Contact Hours: 3

Typically Offered: Spring Even

THE 635 - Development of American Theatre

Credit Hours: 3

Study of theatre in the United States from colonial times to the present with a focus on the cultural and aesthetic variety of American theatrical practice and the theatre as a reflection of various social, cultural, and political beliefs. May be taught concurrently with THE 547. Cannot receive credit for both THE 547 and THE 635.

Lecture Contact Hours: 3

Typically Offered: Fall Even

THE 640 - Directing II

Credit Hours: 3

Advanced directing techniques. Directing of a one-act play. May be taught concurrently with THE 530. Cannot receive credit for both THE 530 and THE 640.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Fall, Spring

THE 652 - Scene Design II

Credit Hours: 3

Advanced designs of selected plays including floor plans, front elevations, white and finished models and renderings. May be taught concurrently with THE 552. Cannot receive credit for both THE 552 and THE 652.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

THE 655 - Lighting Design II

Credit Hours: 3

Advanced principles and techniques of lighting for theatre, dance, and other performance/presentational events. May be taught concurrently with THE 555. Cannot receive credit for both THE 555 and THE 655.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

THE 658 - Sound Design for the Theatre

Credit Hours: 3

Principles of sound design with an emphasis on practical application. Includes a study and practice of basic audio production, recording, editing, mixing, reinforcement, and playback techniques used in association with dramatic events. Study of sound design includes aesthetic, dramatic, and practical considerations of script analysis, creative collaboration, research, and problem solving. Practical class application will be in the form of simple projects, exercises, and designs. May be taught concurrently with THE 558. Cannot receive credit for both THE 558 and THE 658.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Spring Odd

THE 665 - Costume Design II

Credit Hours: 3

Emphasis on special problems in costume design including applications of concepts to design projects and presentation of completed design projects. May be taught concurrently with THE 565. Cannot receive credit for both THE 565 and THE 665.

Lecture Contact Hours: 2 **Lab Contact Hours:** 2

Typically Offered: Demand

THE 671 - History of Costume and Decor I

Credit Hours: 3

A survey of styles of dress, interior design and decoration, architecture, art, and historical events as they pertain to the design of theatrical productions, from ancient Egypt to circa 1700. Requires sketching. May be taught concurrently with THE 561. Cannot receive credit for both THE 561 and THE 671.

Lecture Contact Hours: 3

Typically Offered: Fall

THE 672 - History of Costume and Decor II

Credit Hours: 3

Survey of styles of dress, interior design and decoration, architecture, and art as they pertain to the design of theatrical productions, from circa 1700 to the present day. Requires sketching. May be taught concurrently with THE 562. Cannot receive credit for both THE 562 and THE 672.

Lecture Contact Hours: 3

Typically Offered: Spring

THE 700 - Graduate Research Methods in Theatre and Interpretation

Credit Hours: 3

Exploration of the current state of theatre studies. Focuses on strategies for research with primary and secondary sources, critical and theoretical methodologies, and various methods of reporting research.

Lecture Contact Hours: 3

Typically Offered: Demand

THE 707 - Theatre Pedagogy: Theories and Practices**Credit Hours:** 3

Designed to acquaint theatre teachers with the field of current theories and practices of theatre and performance pedagogy, and to develop instructional skills with specific application to teaching introductory level theatre courses.

Lecture Contact Hours: 3

Typically Offered: Fall

THE 710 - Seminar: Performance**Credit Hours:** 3

Studies in rhetorical, cultural, social and aesthetic dimensions of performance.

Lecture Contact Hours: 3

Typically Offered: Spring Even

THE 742 - Dramatic Theory and Criticism**Credit Hours:** 3

Representative theories of dramatic form and function; works of major critics and philosophers from Aristotle to present.

Lecture Contact Hours: 3

Typically Offered: Demand

THE 790 - Workshop in Theatre**Credit Hours:** 3-9

Designed to improve the students' skill and knowledge in specific areas of theatrical production. Each workshop will be concerned with a single topic, either acting, directing, or design. The course will examine the intersections between theory and practice in the creation of theatrical works. May be repeated to a maximum of nine hours.

Typically Offered: Spring

THE 793 - Degree Paper

Credit Hours: 3

Research and writing of an extended paper originating in one of THE 700-level courses. Students may choose to present the completed paper for their required research report. May be repeated to a maximum of six hours.

Typically Offered: Demand

THE 794 - Theatre Practicum**Credit Hours:** 3

Acting, stagecraft, costuming and associated work in the Tent Theatre or other specified theatre production. May be repeated to a maximum of six hours.

Prerequisite: permission of department head.

Typically Offered: Demand

THE 795 - Applied Research Project**Credit Hours:** 3

The applied research project may consist of: 1) a creative project (directing, designing, scripting, performing), or 2) an internship with a host company or agency. For the non-thesis project, students must design specific educational and social as well as artistic objectives and appropriate assessment measures in consultation with the advisor. Students may choose to report on the applied research project for their required research report. Graded Pass/Not Pass only.

Prerequisite: permission of research advisor and, if applicable, host institution permission must be obtained the semester prior to enrollment.

Typically Offered: Fall, Spring, Summer

THE 796 - Readings**Credit Hours:** 1-3

Individual, experimental or research studies in theatre and performance studies. May be repeated to a maximum of six hours.

Prerequisite: permission of graduate coordinator.

Typically Offered: Fall, Spring

THE 797 - Topics**Credit Hours:** 1-3

Creative or special topics in theatre and performance studies. May be repeated to a maximum of six hours.

Prerequisite: permission of graduate coordinator.

Typically Offered: Fall, Spring

THE 798 - Thesis Research

Credit Hours: 3

Research leading to a master's thesis. Students will present a proseminar on their research during the semester they are enrolled in this course.

Prerequisite: permission of the graduate coordinator.

Typically Offered: Fall, Spring, Summer

THE 799 - Thesis Writing**Credit Hours:** 3

Preparation of thesis. May be repeated, but no more than three hours may be counted toward a master's degree. Graded Pass/Not Pass only.

Prerequisite: permission of graduate coordinator.

Typically Offered: Fall, Spring, Summer

Sort by College

- Doctoral Programs
- Master's Programs
- Graduate Certificates
- All Programs by Type
- Sort by College
- Sort by School/Department

College of Business

Academic Units

Business Unit

- School of Accountancy
- Department of Finance, Economics and Risk Management
- Department of Information Technology and Cybersecurity
- Department of Management
- Department of Marketing

Accreditation within the Business Unit

AACSB-International - The Association to Advance Collegiate Schools of Business-International

Non-Business Units

- School of Construction, Design and Project Management
- Bachelor of Arts in Economics program-Department of Finance, Economics and Risk Management

Accreditations outside the Business Unit

- American Council for Construction Education
- Project Management Institute Global Accreditation Center

Contact

Dean

David B. Meinert, PhD

Associate Deans

Kent P. Ragan, PhD, CFA

Office

Glass Hall, Room 400

Phone

417-836-5646

Email

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Website

Business.MissouriState.edu

Business Advisement Center

Master's Programs

Accountancy, MAcc

Program Description

The Master of Accountancy (MAcc) degree program is intended to provide students with the education necessary to prepare them to succeed in their careers, whether that career relates to public, private, or governmental accounting; pursue a doctoral degree; or seek another career in business or education. For students pursuing a CPA, the program provides students a pathway to meet the "150-hour" education requirement for CPA licensure in the State of Missouri and for membership in the American Institute of Certified Public Accountants.

An *accelerated* option is available for eligible Missouri State University undergraduate accounting majors. Students must apply during the second semester of their junior year. If accepted, up to 6 hours of 600-700 level accounting courses may be counted toward both the undergraduate and graduate degrees. This option allows Missouri State University accounting majors to obtain both the Bachelor of Science and MAcc degrees in five years with a total of 152 semester hours rather than the normal 158 hours.

An online option is available for the Master of Accountancy. Admission requirements to the online program are the same as those for the Traditional MAcc.

The MAcc program is accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Admission

To apply for admission, go to the Graduate College website and apply online.

XF Policy

High standards of professional conduct are required for admission to the accounting profession and to obtain and retain professional accounting certifications (CPA, CMA, CIA, CFE, etc). Prospective graduate students who have been assigned a grade of XF (failure due to academic dishonesty) at Missouri State University (MSU), or the equivalent at another institution of higher education, may be denied acceptance to any graduate program offered by the SOA including the Master of Accountancy, and Graduate Certificates offered by the SOA. Students who have been assigned a grade of XF at MSU, or the equivalent at another institution of higher education, are required to inform the SOA Graduate Program Director of such grade at the time of application, even if the X was subsequently removed. Failure to inform the SOA Graduate Program Director of this previous XF or equivalent grade will result in removal from the program. A student assigned a grade of XF while studying toward completion of one or more of the previously listed graduate programs or certificates will be immediately removed from the program(s).

Admission - Traditional MAcc

Admission to the MAcc program is competitive. The student must have received an undergraduate degree from a regionally accredited college or university.

1. Overall GPA of at least 3.00 and 3.00 in upper-division accounting courses.
2. The School of Accountancy uses a holistic approach when evaluating applicants for admission. The GMAT is not required. Applicants who wish to include the GMAT as part of their application are welcome to do so.
3. Applicants whose native language is not English must submit scores on the internet-based Test of English as a Foreign Language (TOEFL). A total score of at least 90 is required, along with the following minimum scores in the component parts:
 - a. Reading: 15;
 - b. Listening: 15;
 - c. Speaking: 18;
 - d. Writing: 17.
4. Applicants must have completed appropriate prerequisites as determined by the MAcc Program Director. Normally, recently completed courses that include the study of FASB standards, AICPA Statements on Auditing standards, PCAOB Auditing standards, and IRS code will meet some prerequisite requirements. Applicants who need to complete prerequisite courses must complete them before starting graduate courses.
5. Applicants who do not meet the normal admission requirements, but who show an indication of high promise, may be considered for admission by the Program Director.
6. All other University and Graduate College requirements for admission to a degree program will also apply.

Admission - Accelerated MAcc

Admission is competitive. Students enrolled in the undergraduate accounting program at Missouri State University may apply for admission into the Accelerated MAcc program. This program allows students to count up to six hours of graduate coursework toward both the undergraduate and graduate degree. The following are preferences for admission to the MAcc program:

1. Completion of at least four of ACC 301, ACC 302, ACC 311, ACC 321 and ACC 341 with a GPA of 3.00 or better.
2. An overall GPA of 3.00 or better.
3. A competitive score on the GMAT. Students with an overall GPA of 3.25 and a 3.25 GPA in four of ACC 301, ACC 302, ACC 311, ACC 321 and ACC 341 may waive this GMAT requirement.
4. For a courses to be designated as Mixed Credit, the MAcc Program Director, the SOA Director and the Graduate College must approve by signing the Permission for Mixed Credit form. This form must be obtained prior to registering for the courses.

5. All other University and Graduate College requirements for admission will also apply.
6. Accounting students from Evangel University and Southwest Baptist University may qualify for admission into the Accelerated program through a cooperative agreement.

Prerequisite Courses

The MAcc can accommodate students without undergraduate degrees in accounting. Deficiencies in a student's undergraduate business or accounting education must be removed by taking appropriate prerequisite courses. Those courses add to the number of hours required to complete the program. To determine the extent of deficiencies, students should contact the MAcc Program Director for a transcript analysis.

By completion of the MAcc Program, the student is expected to meet the common body of knowledge requirements of the AACSB International. These requirements involve course work in economics, statistics, computer information systems, finance, business law, management and marketing that is essentially equivalent to that required of Missouri State University undergraduate accounting majors.

Degree Requirements - Credit Hours: 30

The Master of Accountancy degree requires a minimum of 30 hours of graduate credit. At least 18 of the 30 hours must be taken at the 700 level. Specific course and credit hour requirements follow.

Accounting Core - Credit Hours: 12

- ACC 703 - Seminar in Accounting Theory for Financial Executives
- ACC 712 - Controllershship and Cost Analytics
- ACC 721 - Research Techniques and Consulting in Tax
- ACC 790 - Current Topics in Corporate and International Accounting

Electives - Credit Hours: 18

ACC Electives:

6 hrs must come from the following ACC list with advisor approval:

- ACC 604 - Advanced Accounting
- ACC 613 - Managerial Cost Accounting II
- ACC 624 - Tax Accounting II
- ACC 642 - Data Analytics in Accounting
- ACC 653 - Auditing
- ACC 705 - Advanced Financial Accounting Problems
- ACC 726 - Regulation Issues for Accountants
- ACC 732 - Governmental and Not-For-Profit Organizational Accounting
- ACC 741 - Advanced Accounting and Management Information Systems
- ACC 750 - Advanced Auditing
- ACC 751 - Computer Forensics and IT Auditing
- ACC 752 - Fraud Examination
- ACC 754 - Forensic Accounting: Litigation Support and Expert Witnessing
- ACC 762 - Business and Accounting Concepts for Accountants

- ACC 794 - Internship: Accounting
- ACC 796 - Independent Study-Accounting
- ACC 797 - Special Topics in Accounting

Free Electives:

12 hrs may be selected from a list of ACC electives above, courses listed in the College of Business Graduate Certificates, or Graduate College courses with advisor approval.

Graduate Certificate

With advisor approval, a student may select one of the Graduate Certificates in the College of Business to fulfill 12 hours. However, students will not graduate with a Graduate Certificate unless the student fulfills all requirements for the Graduate Certificate. In limited cases and with approval of the Director of the School of Accountancy, a course not on the preceding list may be applied to the MAcc.

Research

Research projects may be required in any graduate accounting course. ACC 703 will have a significant professional research component.

Other Policies

1. Students cannot apply more than 12 hours of 600-level courses towards the 30-hour requirement for the MAcc degree.
2. Students must take a minimum of 18 hours of graduate courses with an ACC prefix.
3. Students cannot receive graduate credit for an equivalent course they have taken at the undergraduate level.
4. No more than a total of six (6) credit hours from ACC 695, ACC 794 , or ACC 796 may be applied to the MAcc degree.

Certificate Options

The School of Accountancy offers four graduate certificates, allowing students to further specialize in accounting analytics, forensic accounting, managerial accounting, or tax accounting. These certificates are 9-hour programs that can be completed either as a stand-alone option or in conjunction with the Master of Accountancy program. The courses required for these certificates may meet core course work or elective requirements in the accounting graduate program.

Academic Standing

A student who fails to attain a 3.00 GPA after completing the approved program may enroll for additional course work not to exceed 6 semester hours to raise the GPA. The course work will be approved by the MAcc Program Director.

The maximum class load for a full-time student is normally 12 hours per semester. An overload is permitted only after students have demonstrated their ability to achieve an outstanding graduate record at this university. Students employed full-time should not enroll for more than 6 semester hours.

All University and Graduate College requirements governing grading and attendance will apply. To enroll in graduate courses in the College of Business, a student must satisfy one of the following two conditions:

1. be admitted to a graduate program in the College of Business, or
2. have permission to enroll from the College of Business Program Director.

Students who do not meet one of these two conditions may be dropped from the course(s) at any time during the session involved.

Business Administration - STEM, MBA

Program description

The Business Administration - STEM (STEM MBA) program is a College of Business degree with courses taken in various departments. The program is specifically designed for students who hold undergraduate degrees in Arts, Science, Engineering, and Law, as well as for students who hold baccalaureate degrees in Business Administration. The program will provide the background knowledge necessary for professional practice in the field of business.

The STEM MBA is accredited by the AACSB International - The Association to Advance Collegiate Schools of Business.

Students must select between the MBA or STEM MBA programs. Only one of these programs can be completed.

Admission

Admission to the STEM MBA program is competitive. Applications are reviewed and decisions made on a rolling basis when application packets are complete. Candidates are encouraged to apply early.

The Program Director looks at a variety of criteria that measure a candidate's potential for being a successful STEM MBA student and business leader. We look at the following characteristics in making admission decisions:

- Past academic performance (official transcripts)
- Official GMAT or GRE score*
- Professional work experience (resume)
- Admissibility to the Graduate College

*The GMAT may be waived for candidates who satisfy ALL of the following requirements:

- Earned a 3.25 cumulative GPA
- Admitted to or have graduated from a Missouri State COB business unit major in the past five years OR graduated with a business degree from an AACSB-accredited school in the past five years
- Completed a minimum of 80 hours at the time of application
- Meet all English proficiency requirements

To be considered for admission, students are required to submit the following**:

- Graduate Application
- Official transcripts
- Official GMAT or GRE Scores
- Resume

**Additional documents may be required for international students.

Accelerated master's degree option

Undergraduate majors in the College of Business may apply for admission to the Business Administration - STEM program. If accepted, up to 12 hours of 600- or 700-level COB classes taken in the junior or senior year may be counted toward both the undergraduate and graduate degrees.

Before enrolling in a course that will apply to both the undergraduate program and the master's program, an undergraduate student must:

- Be accepted into the accelerated program.
- Receive prior approval from the graduate advisor, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a mixed credit form.

Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Accelerated admission requirements (admission to the accelerated STEM MBA program is competitive):

- Completion of 80 or more hours at time of application
- An overall GPA of 3.00 or better
- A competitive score on the Graduate Management Admissions Test (GMAT) or applicant must meet the requirements for a GMAT waiver (see Admissions Requirements for MBA Program).

XF policy

High standards of professional conduct are required for admission to the STEM MBA program and other College of Business graduate certificate programs. Prospective graduate students who have been assigned a grade of XF (failure due to academic dishonesty) at Missouri State University (MSU), or the equivalent at another institution of higher education, may be denied admission to the STEM MBA program or College of Business graduate certificate programs. Students who have been assigned a grade of XF at MSU, or the equivalent at another institution of higher education, are required to inform the MBA Program Director of such grade at the time of application, even if the X was subsequently removed. Failure to inform the MBA Program Director of this previous XF or equivalent grade will result in removal from the MBA or COB graduate certificate program. A student assigned a grade of XF while studying toward completion of the MBA or COB graduate certificate program will be immediately removed from the program(s).

GMAT preparation course

MSU's International Center's English Language Institute offers a GMAT preparation course each semester. For additional information, contact 417-836-6540 or review Test Preparation Courses.

Unclassified admission

Students who meet general Graduate College requirements, but have not fulfilled all requirements to enter the STEM MBA program, may be admitted to the Graduate College as a "Graduate student - unclassified." This status will allow a student to enroll in an absolute **maximum of 9 graduate hours** before being fully admitted to the STEM MBA program. **All courses at the 600-level or higher are considered graduate hours.**

Computer application competency

Students entering the STEM MBA program are expected to be proficient in the use of word processing, database, and spreadsheet software. No coursework is required to fulfill this criterion. Knowledge derived from professional or personal experience will qualify. If a student feels that he or she does not have the necessary base of knowledge to fulfill this requirement, there are various resources available on campus, such as self-paced tutorials and hands-on programs that would be helpful to increase computer knowledge and experiences.

International applicants

Applicants from foreign countries whose native language is not English are required to submit scores on the Test of English as a Foreign Language (TOEFL). Review English Proficiency Requirements.

English Language Institute

The English Language Institute (ELI) began classes in June 1996 with five students. Since that time, the program has experienced continued growth and now serves more than 150 students, most of whom are preparing for study in undergraduate or graduate programs at Missouri State University. The ELI offers five levels of study in core areas of writing, grammar, reading/vocabulary, academic listening skills, and speaking pronunciation classes. Through an intensive twenty-five hours per week, students have the opportunity to prepare for the language challenges of American classrooms. The focus of the English Language Institute, therefore, is to equip ESL students with the necessary language skills to achieve success in the degree program of their choice and to enhance their potential for future employment after graduation.

For more information, please contact: Director, English Language Institute, 301 S Jefferson, Springfield, MO 65806, USA, Phone 417-836-6540, Fax 417-836-4784, email ELI@MissouriState.edu. For more information visit the ELI website.

Core Requirements - Credit Hours: 22

- COM 703 - Professional Communication Skills
- ITC 761 - Management Information Systems *
- ACC 711 - Managerial Accounting *
- MKT 772 - Marketing Management *
- MGT 764 - Organizational Behavior and Leadership *
- FIN 780 - Advanced Financial Management *
- QBA 775 - Quantitative Methods in Business Decision Making *
- MGT 767 - Organization Strategy and Policy

Note:

*Students whose undergraduate major is in a STEM MBA core course discipline must consult with the MBA Program Director to determine if they should substitute another 600- or 700-level course in the College of Business for the core course in that discipline.

Additional Requirements - Credit Hours: 12

International - Credit Hours: 3

Select one course from FIN 682 or FIN 686.

Electives - Credit Hours: 6

In consultation with the MBA Director, students will select six hours of approved STEM elective courses.

Seminar - Credit Hours: 3

Students will select from ITC 790, FIN 790, FIN 787 or MKT 670, although other courses may be acceptable.

The following are approved STEM electives for the STEM MBA:

- FIN 670 - Foundations of Fintech
- FIN 681 - Professional Financial Planning
- FIN 682 - International Financial Management *
- FIN 685 - Portfolio Management and Alternative Assets
- FIN 686 - International Financial Statement Analysis *
- FIN 687 - Security Valuation
- FIN 689 - Management of Financial Institutions
- FIN 698 - Financial Research and Portfolio Management
- FIN 699 - Directed Study for CFA Level I Exam
- FIN 787 - Seminar in Derivatives
- FIN 790 - Seminar in Finance
- ITC 645 - Data Infrastructure for Data Analytics
- ITC 655 - Data Visualization
- ITC 663 - Telecommunications and Network Security
- ITC 664 - Ethical Hacking and Incident Response
- ITC 680 - Fundamentals of Blockchain Technology
- ITC 683 - Cloud Computing
- ITC 720 - Project Management in Information Systems
- ITC 735 - Neural Networks for Machine Learning
- ITC 748 - Principles of Information Security
- ITC 760 - Foundations of Cybersecurity
- ITC 762 - Legal Issues in Cybersecurity
- ITC 765 - Computer Forensics
- ITC 766 - Web Application Security
- ITC 767 - Management of Information Security
- ITC 790 - Seminar in Management Information Systems
- ITC 797 - Special Topics
- MKT 670 - Marketing Analytics
- MKT 730 - Logistics and Transportation
- MKT 740 - Supply Chain Models and Systems
- RMI 620 - Risk Modeling and Analytics
- RMI 630 - Risk Transfer
- Other elective courses may be approved by the MBA Director.

*** If not used to meet the international requirement**

Degree Requirements

With foundation courses met, the STEM MBA degree requires a minimum of 34 semester hours of graduate credit composed of:

Core Requirements: 22

Additional Requirements: 12

Total Credit Hours: 34

Graduate Certificates

Many students will choose to complete a COB Graduate Certificate in conjunction with their MBA, as most COB Graduate Certificates do not require additional coursework outside the 34 hours required for the STEM MBA.

No more than 9 hours of 600-level courses may be applied to the degree program.

Research

Students are expected to demonstrate research and writing proficiency appropriate to the business environment. Significant written projects are required within each of the core courses. In lieu of the required seminar course and one elective, a student may complete a thesis for 6 hours of credit.

Possible Foundation Courses

Upon evaluation of baccalaureate degree transcripts, some or all of these courses may be waived, particularly for students holding an undergraduate degree in business.

This foundation is composed of the following six graduate-level courses which are designed to provide accelerated coverage of the knowledge base necessary for students to benefit most from the STEM MBA curriculum.

All of the foundation courses (or their undergraduate equivalents) are now available online at least once each year. These online courses do not have a campus component and can be completed entirely from the student's location. Contact the MBA Program Director regarding questions about these courses.

Those considering entering the STEM MBA program are encouraged to email COBGraduatePrograms@MissouriState.edu with an unofficial copy of transcripts, requesting a transcript analysis by the MBA Program Coordinator.

- ACC 600 - Accounting Concepts for Managers
- ECO 600 - Fundamentals of Economics
- FIN 600 - Managerial Finance
- LAW 600 - Legal Environment for Business Managers
- MGT 600 - Administrative, Organizational and Operations Concepts for Managers
- QBA 600 - Statistical Methods in Business Research

Academic Standing

A student who fails to attain a 3.00 GPA after completing the approved program may enroll for additional course work not to exceed 6 semester hours to raise the GPA. The course work will be approved by the Director of the MBA Program and the Dean of the College of Business.

The maximum class load for a full-time student is normally 12 hours per semester. An overload is permitted only after students have demonstrated their ability to achieve an outstanding graduate record at this university. Students employed in a full-time job should not enroll for more than 6 semester hours.

All other University and Graduate College requirements governing grading and attendance will apply.

To enroll in graduate courses in the College of Business, a student must satisfy one of the two conditions listed below:

1. be admitted to a graduate program in the College of Business, or
2. have permission to enroll from the Director of the MBA Program.

Students who do not meet one of these two conditions will be dropped from the course(s) at any time during the session involved.

Business Administration, MBA

Program Description

The Master of Business Administration (MBA) degree is a College of Business degree with courses taken in various departments. The program is specifically designed for students who hold undergraduate degrees in Arts, Science, Engineering, and Law, as well as for students who hold Baccalaureate degrees in Business Administration. The program will provide the background knowledge necessary for professional practice in the field of business.

The MBA is accredited by the AACSB International - The Association to Advance Collegiate Schools of Business.

Students must select between the MBA or the STEM MBA programs. Only one of these programs can be completed.

Admission

Admission to the MBA program is competitive. Applications are reviewed and decisions made on a rolling basis when application packets are complete. Candidates are encouraged to apply early.

The Program Director looks at a variety of criteria that measure a candidate's potential for being a successful MBA student and business leader. We look at the following characteristics in making admission decisions:

- Past academic performance (official transcripts)
- Official GMAT or GRE score*
- Professional work experience (Resume)
- Admissibility to the Graduate College

*The GMAT may be waived for candidates who satisfy ALL of the following requirements:

- Earned a 3.25 cumulative GPA
- Admitted to or have graduated from a Missouri State COB business unit major in the past five years OR graduated with a business degree from an AACSB-accredited school in the past five years
- Completed a minimum of 80 hours at the time of application
- Meet all English proficiency requirements

To be considered for admission, students are required to submit the following**:

- Graduate Application
- Official transcripts
- Official GMAT or GRE Scores
- Resume

**Additional documents may be required for international students.

Accelerated master's degree option

Undergraduate majors in the College of Business may apply for admission to the Master of Business Administration program. If accepted, up to 12 hours of 600- or 700-level COB classes taken in the junior or senior year may be counted toward both the undergraduate and graduate degrees.

Before enrolling in a course that will apply to both the undergraduate program and the master's program, an undergraduate student must:

- Be accepted into the accelerated program.
- Receive prior approval from the graduate advisor, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a mixed credit form.

Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Accelerated Admission Requirements (Admission to the Accelerated MBA Program is Competitive):

- Completion of 80 or more hours at time of application
- An overall GPA of 3.00 or better
- A competitive score on the Graduate Management Admissions Test (GMAT) or applicant must meet the requirements for a GMAT waiver (see Admissions Requirements for MBA Program).

XF Policy

High standards of professional conduct are required for admission to the Master of Business Administration (MBA) program and other College of Business graduate certificate programs. Prospective graduate students who have been assigned a grade of XF (failure due to academic dishonesty) at Missouri State University (MSU), or the equivalent at another institution of higher education, may be denied admission to the Master of Business Administration program or College of Business graduate certificate programs. Students who have been assigned a grade of XF at MSU, or the equivalent at another institution of higher education, are required to inform the MBA Program Director of such grade at the time of application, even if the X was subsequently removed. Failure to inform the MBA Program Director of this previous XF or equivalent grade will result in removal from the MBA or COB graduate certificate program. A student assigned a grade of XF while studying toward completion of the MBA or COB graduate certificate program will be immediately removed from the program(s).

GMAT Preparation Course

MSU's International Center's English Language Institute offers a GMAT preparation course each semester. For additional information, contact 417-836-6540 or review Test Preparation Courses.

Unclassified Admission

Students who meet general Graduate College requirements, but have not fulfilled all requirements to enter the MBA program, may be admitted to the Graduate College as a "Graduate student - unclassified." This status will allow a student to enroll in an absolute **maximum of 9 graduate hours** before being fully admitted to the MBA program. **All courses at the 600-level or higher are considered graduate hours.**

Computer Application Competency

Students entering the Master's of Business Administration program are expected to be proficient in the use of word processing, database, and spreadsheet software. No coursework is required to fulfill this criterion. Knowledge derived from professional or personal experience will qualify. If a student feels that he or she does not have the necessary base of knowledge to fulfill this requirement, there are various resources available on campus, such as self-paced tutorials and hands-on programs that would be helpful to increase computer knowledge and experiences.

International Applicants

Applicants from foreign countries whose native language is not English are required to submit scores on the Test of English as a Foreign Language (TOEFL). Review English Proficiency Requirements.

English Language Institute

The English Language Institute (ELI) began classes in June 1996 with five students. Since that time, the program has experienced continued growth and now serves more than 150 students, most of whom are preparing for study in undergraduate or graduate programs at Missouri State University. The ELI offers five levels of study in core areas of writing, grammar, reading/vocabulary, academic listening skills, and speaking pronunciation classes. Through an intensive twenty-five hours per week, students have the opportunity to prepare for the language challenges of American classrooms. The focus of the English Language Institute, therefore, is to equip ESL students with the necessary language skills to achieve success in the degree program of their choice and to enhance their potential for future employment after graduation.

For more information, please contact: Director, English Language Institute, 301 S Jefferson, Springfield, MO 65806, USA, Phone 417-836-6540, Fax 417-836-4784, email JaneRobison@missouristate.edu or ELI@MissouriState.edu. You may also visit the ELI website.

Executive MBA option (EMBA)

When offered to a select group of students, typically a cohort, with significant business experience, the MBA Program may be presented in a format referred to as the Executive MBA Option or the EMBA. From a curricular viewpoint, the EMBA would be structured in the same way as the traditional MBA, however, the presentation format of core and elective courses will be designed in such a way as to maximize the benefit to working business professionals.

GMAT/GRE scores are not required for admission to the EMBA, however, the applicant would need to provide documentation verifying at least 5 years of business experience.

For EMBA students, prerequisite requirements for the core program courses can be satisfied through appropriate prior coursework, relevant business experience or by an individualized study program developed and supervised by the EMBA Program Director.

The credit hour costs for classes taken by students enrolled in the EMBA program are assessed at a higher rate than the traditional MBA offerings due to additional expenditures associated with the program.

Admission Requirements

Completion of a regionally accredited undergraduate degree.

1. Completion of 5 or more years of business/professional experience.

Foundation Courses

Upon evaluation of baccalaureate degree transcripts, some or all of these courses may be waived, particularly for students holding an undergraduate degree in business.

This foundation is composed of the following six graduate-level courses which are designed to provide accelerated coverage of the knowledge base necessary for students to benefit most from the MBA curriculum.

All of the foundation courses (or their undergraduate equivalents) are now available online at least once each year via the Internet. These online courses do not have a campus component and can be completed entirely from the student's location. Contact the MBA Program Director regarding questions about these courses.

- ACC 600 - Accounting Concepts for Managers
- ECO 600 - Fundamentals of Economics
- FIN 600 - Managerial Finance
- MGT 600 - Administrative, Organizational and Operations Concepts for Managers
- QBA 600 - Statistical Methods in Business Research
- LAW 600 - Legal Environment for Business Managers

Total Credit Hours: 18

Upon evaluation of baccalaureate degree transcripts, some or all of these courses may be waived, particularly for students holding an undergraduate degree in business.

All of the foundation courses are now available once each year via the Internet. These online courses do not have a campus component and can be completed entirely from the student's location. Contact the MBA Program Director regarding questions about these courses.

Those considering entering the MBA program are encouraged to email mbaprogram@missouristate.edu with an unofficial copy of transcripts, requesting a transcript analysis by the MBA Program Coordinator.

Degree Requirements

With foundation courses met, the MBA degree requires a minimum of 34 semester hours of graduate credit composed of:

Total Credit Hours: 34

Core Requirements - Credit Hours: 22

- ACC 711 - Managerial Accounting *
- COM 703 - Professional Communication Skills
- FIN 780 - Advanced Financial Management *
- ITC 761 - Management Information Systems *
- MGT 764 - Organizational Behavior and Leadership *
- MGT 767 - Organization Strategy and Policy
- MKT 772 - Marketing Management *
- QBA 775 - Quantitative Methods in Business Decision Making *

International Requirement: Select One Course From

- BUS 792 - International Education Abroad in Business
- FIN 682 - International Financial Management
- FIN 686 - International Financial Statement Analysis
- FIN 792 - International Education Abroad in Finance
- MGT 747 - International Management
- MKT 764 - Global Supply Chain Management
- MKT 774 - International Marketing
- RMI 792 - International Education Abroad in Risk Management and Insurance

Note:

*Students whose undergraduate major is in a MBA core course discipline must consult with the MBA Program Director to determine if they should substitute another 600- or 700-level course in the College of Business for the core course in that discipline.

Other Requirements - Credit Hours: 9**

Seminar (A Seminar Course is Required) - Credit Hours: 3

Most students will select from ITC 790, FIN 790, FIN 787, MGT 790, MKT 790, or MKT 770, although other courses may be acceptable.

Elective Options - Credit Hours: 6

In consultation with the MBA Director, students will select six hours of elective courses. Many students will choose to complete a COB Graduate Certificate in conjunction with their MBA, as most COB Graduate Certificates do not require additional coursework outside the 34 hours required for the MBA.

The COB Graduate Certificates that are available are:

- Graduate Certificate in Cybersecurity
- Graduate Certificate in Data Analytics
- Graduate Certificate in Entrepreneurship
- Graduate Certificate in Finance
- Graduate Certificate in Financial Analysis

- Graduate Certificate in Fintech
- Graduate Certificate in Health Professions Administrative Leadership
- Graduate Certificate in Information Technology
- Graduate Certificate in International Business
- Graduate Certificate in Leadership
- Graduate Certificate in Management
- Graduate Certificate in Management Accounting
- Graduate Certificate in Marketing
- Graduate Certificate in Marketing Analytics
- Graduate Certificate in Project Management
- Graduate Certificate in Quantitative Enterprise Risk Management

** No more than 9 hours of 600-level courses may be applied to the degree program.

Note:

** No more than 9 hours of 600-level courses may be applied to the degree program.

Research

Students are expected to demonstrate research and writing proficiency appropriate to the business environment. Significant written projects are required within each of the core courses. In lieu of the required seminar course and one elective, a student may complete a thesis for 6 hours of credit.

Academic standing

A student who fails to attain a 3.00 GPA after completing the approved program may enroll for additional course work not to exceed 6 semester hours to raise the GPA. The course work will be approved by the Director of the MBA Program and the Dean of the College of Business.

The maximum class load for a full-time student is normally 12 hours per semester. An overload is permitted only after students have demonstrated their ability to achieve an outstanding graduate record at this university. Students employed in a full-time job should not enroll for more than 6 semester hours.

All other University and Graduate College requirements governing grading and attendance will apply.

To enroll in graduate courses in the College of Business, a student must satisfy one of the two conditions listed below:

1. be admitted to a graduate program in the College of Business, or
2. have permission to enroll from the Director of the MBA Program.

Students who do not meet one of these two conditions will be dropped from the course(s) at any time during the session involved.

XF Policy

High standards of professional conduct are required for admission to the Master of Business Administration (MBA) program and other College of Business graduate certificate programs. Prospective graduate students who have been assigned a grade of XF (failure due to academic dishonesty) at Missouri State University (MSU), or the equivalent at another institution of higher education, may be denied admission to the Master of Business Administration program or College of Business graduate certificate programs. Students who have been assigned a grade of XF at MSU, or the equivalent at another institution of higher education, are required to inform the MBA Program Director of such grade at the time of application, even if the X was

subsequently removed. Failure to inform the MBA Program Director of this previous XF or equivalent grade will result in removal from the MBA or COB graduate certificate program. A student assigned a grade of XF while studying toward completion of the MBA or COB graduate certificate program will be immediately removed from the program(s).

Cybersecurity, MS

Program Description

The Cybersecurity Master's Degree Program provides a 30-hour graduate-level experience in the field of Cybersecurity. The program provides hands-on labs and exercises to teach aspiring Cybersecurity professionals how to secure and defend Information Systems from malicious attackers and serve in senior management roles sometimes referred to as Chief Information Security Officer (CISO) or Chief Security Officer (CSO).

Entrance requirements

1. Admission to the MS, Cybersecurity program is competitive. Applications are reviewed and decisions are made on a rolling basis when application packets are complete. Candidates are encouraged to apply early, as seats often fill quickly.
2. The Program Coordinator looks at a variety of criteria that measure a candidate's potential for being a successful student. The following characteristics are considered in making admission decisions:
 - Admissibility to the Graduate College.
 - Professional work experience.
 - Past academic performance as evidenced by official transcripts.
 - Official GMAT or GRE scores. The GMAT may be waived for candidates who satisfy ALL of the following requirements:
 - i. Cumulative GPA of 3.25 or above.
 - ii. Prior admission to or graduation from a Missouri COB business unit major in the past five years OR graduation with a Bachelor's degree from an AACSB-accredited college or university.
 - iii. Completion of a minimum of 80 hours at the time of application.
 - iv. English proficiency requirements met.
 - To be considered for admission, students are required to submit the following. Additional documents may be required for international students:
 - Graduate Application
 - Official transcript
 - Official GMAT or GRE scores
 - Resume
 - Students who do not meet the admission requirements, but who show indication of high promise, will be considered for probationary admission.
 - All other University and Graduate College requirements for admission to a degree program will also apply. Qualified applicants may enter the program at the beginning of any semester.

Accelerated Master's Degree Option

Undergraduate majors in the College of Business may apply for admission to the Master of Cybersecurity program during the second semester of their junior year. If accepted, up to 6 hours of 600- or 700-level COB classes taken in the senior year may be counted toward both the undergraduate and graduate degrees. For example, upon admission into the Accelerated Master's program a student could take ITC 683 and have that course count for credit for ITC 583; ITC 760 could be taken for credit as ITC

560 and/or ITC 664 could be counted as credit for ITC 564. But, again, only 6 hours (2 of these previously listed courses) can be counted toward both the undergraduate and graduate degrees.

Before enrolling in a course that will apply to both the undergraduate program and the master's program, an undergraduate student must:

- Be accepted into the accelerated program.
- Receive prior approval from the graduate advisor, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a mixed credit form.

Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission requirements

- Completion of 80 or more hours at time of application
- An overall GPA of 3.00 or better
- A competitive score on the Graduate Management Admissions Test (GMAT) or meet the requirements for a GMAT waiver (see Admissions Requirements for MS in Cybersecurity Program).

Degree Requirements Minimum - Credit Hours: 30

Complete 8 Courses From Below - Credit Hours: 24

- ITC 663 - Telecommunications and Network Security
- ITC 664 - Ethical Hacking and Incident Response
- ITC 760 - Foundations of Cybersecurity
- ITC 762 - Legal Issues in Cybersecurity
- ITC 765 - Computer Forensics
- ITC 766 - Web Application Security
- ITC 767 - Management of Information Security
- ITC 770 - Seminar in Cybersecurity

Complete 2 Courses From Below - Credit Hours: 6

- ITC 683 - Cloud Computing
- ITC 761 - Management Information Systems
- ITC 794 - Internship: Information Technology and Cybersecurity *
- 3 credits of ITC 797 - Special Topics *

Note:

*Requires Permission of the Department Head.

Up to 6 semester hours of graduate work can be transferred from another accredited graduate school and applied to the MS, Cybersecurity degree requirements. All transfer credit must be approved by the Program Director.

GPA Requirements

Attain a grade point average of at least 3.00 on all graduate work utilized in the degree program (includes Missouri State University and transfer courses).

Health Administration, MHA

Program Description

The Master of Health Administration (MHA) degree is a College of Business degree that includes several interdisciplinary courses contributed by other colleges on campus. The program is designed for students holding at least an undergraduate degree who wish to further their careers in the management of health organizations including integrated systems, hospitals, group practices, long-term care facilities, clinics, managed care organizations, and other types of health organizations.

The MHA is accredited by AACSB International - The Association to Advance Collegiate Schools of Business- and courses are designed to meet Quality Matters criteria. The MHA program is provided in an online only format and the curriculum consists of 12 core courses.

Admission Requirements

To be considered for admission, the applicant must meet the Graduate College admission requirements.

Degree Requirements

The program requires a minimum 36 hours of graduate credit plus any necessary prerequisite courses.

Core Requirements - Credit Hours: 36

- ACC 688 - Healthcare Accounting Concepts
- FIN 788 - Healthcare Financial Management *
- PLS 754 - Seminar in Health Policy
- MGT 701 - Health Services Organization
- MGT 702 - Managing Healthcare Organizations
- MGT 703 - Health Law and Ethics
- MGT 704 - Human Resources in Healthcare Organizations
- MGT 705 - Strategic Management of Healthcare Organizations
- MGT 708 - Healthcare Informatics *
- MGT 711 - Measurement and Management of Quality in Health Care
- MGT 770 - Leadership Development
- MGT 780 - MHA Capstone Seminar

Note:

*Course prerequisites may be required.

Research Requirement

Significant supervised quantitative and qualitative research projects in MGT 701, MGT 703, MGT 705, MGT 711, PLS 754, and culminating in the capstone MGT 780 course satisfy the research requirement of the Graduate College.

Executive MHA Option (EMHA)

The Executive MHA Option is only available on a contractual arrangement with a specific healthcare organization. The healthcare organization selects a cohort of students who are employed or affiliated with the healthcare organization to participate in the program. The MHA Program will be presented in a format referred to as the Executive MHA Option or the EMHA. From a curricular viewpoint, the EMHA is structured similarly and requires 36 graduate course credits.

For EMHA students, prerequisite requirements for the core program courses will be satisfied through appropriate prior course work, relevant professional experience or by an individualized study program developed and supervised by the EMHA Program Director.

The credit hour costs for classes taken by students enrolled in the EMHA program are assessed at a higher rate than the traditional MHA offerings due to additional expenditures associated with the program.

Admission Requirements

To be considered for admission, the applicant must meet the Graduate College admission requirements

Accelerated MHA Option

Undergraduate majors in the College of Business may apply for admission to the Master of Health Administration (MHA) program during the second semester of their junior year. If accepted, up to 6 hours of 700-or 700-level College of Business classes taken in the senior year may be counted toward both the undergraduate and graduate degrees.

Before enrolling in a course that will apply to both the undergraduate program and the master's program an undergraduate student must:

1. Be accepted into the accelerated program.
2. Receive prior approval from the graduate program director, department head, and Dean of the Graduate College. This is done by using a Mixed Credit Form.

Admission Requirements

1. Junior standing.
2. Minimum 2.75 GPA.

Academic Standing

A student who fails to attain a 3.00 GPA after completing the approved program may enroll for additional course work not to exceed 6 hours to raise the GPA. The course work will be approved by the Graduate Program Director and the Dean of the College of Business.

The maximum class load for a full-time student is normally 12 hours per semester. An overload is permitted only after students have demonstrated their ability to achieve an outstanding graduate record at this university. Students employed in a full-time job generally should not enroll for more than 6 to 9 semester hours. All other University and Graduate College requirements governing grading and attendance will apply.

To enroll in graduate courses in the College of Business, a student must be admitted to a graduate program in the College of Business or have special permission. Students not meeting one of these conditions can be dropped from the course(s) at any time during the session involved.

MPH-MHA Dual Degree

Students can obtain dual degrees in health administration and public health at Missouri State University. Students who successfully complete the program will receive both a Master of Health Administration (MHA) degree and a Master of Public Health (MPH) degree. A total of 12 hours of coursework can be applied to both programs, reducing the time required to obtain both degrees separately.

Public health and health administration are increasingly important areas in health care and medicine. Information, resources, technology, research and new challenges are expanding tremendously in the fields of public health and health administration and it is important to have a trained workforce that can bridge these two areas of health care and medicine. The successful completion of dual degrees in public health and health care administration provide students with a unique set of knowledge, skills and abilities that enable graduates to communicate relevant health information; account for health care priorities, policy and delivery; manage crises; and address major health concerns at the level of a population. All these activities are information intensive to support professional decision-making, practice and action.

The dual MHA/MPH degree program provides graduates with interdisciplinary knowledge, skills, and abilities to address challenges on a local and global scale. This dual degree program offers a course of study that emphasizes effective management and responsible oversight within the health care delivery system and focus on identifying, resolving, and preventing health problems that affect communities and populations. Beyond these foundations, both programs challenge students to lead their organizations toward satisfying the future demands and needs of their communities.

There is overlap between the MHA and MPH programs, which enables students to complete both degrees in a streamlined process. The MHA has a core requirement of 36 credit hours while the MPH has a 42 hour requirements.

Currently there are two courses (6 credit hours) jointly shared by the two programs.

1. MGT 701 - Health Services Organization
2. PLS 754 - Seminar in Health Policy

In addition, there is a joint collaborative relationship between the two programs in terms of the Capstone Project in Public Health, PBH 799 - Capstone Project in Public Health, with the Program Director for the MHA program serving on the student's Capstone Committee. In keeping with the traditional approach to dual degrees, there is a reduction in overall hour requirements for both degrees.

Information Technology, MS

Program Description

The Master of Science in Information Technology provides relevant and timely graduate education to professionals seeking skills in the effective management, development and implementation of information technology in organizations. Building upon the student's work experience and education, the program offers intensive online learning instruction assignments to deliver a high-quality graduate learning experience. The result is a program which develops the effective organizational, leadership and job-specific skills required in the fast-paced information technology field.

The MSIT program is accredited by AACSB International - The Association to Advance Collegiate Schools of Business.

Entrance Criteria

One or more of the following criteria will be considered for admission to the Master of Science in Information Technology program*:

1. Past academic performance.
2. Professional work experience.
3. Minimum qualifications for admission to Missouri State as a graduate student.

*Admission to the MSIT program is competitive, and satisfying the above entrance criteria does not guarantee admission. Provisional admission may be available for students do not meet the minimum criteria at the time of application. Provisional students may be required to successfully complete specific prerequisite courses in order to remove their provisional status.

Accelerated Master's Degree Option

Undergraduate majors in the College of Business may apply for admission to the Master of Science in Information Technology (MSIT) program during the second semester of their junior year. If accepted, up to 12 hours of 600- and 700-level COB classes taken in the senior year may be counted toward both the undergraduate and graduate degrees.

Admission Requirement:

1. Completion of 80 or more hours at time of application.
2. An overall GPA of 3.00 or better.

Before enrolling in a course that will apply to both the undergraduate program and the master's program an undergraduate student must:

1. Be accepted into the accelerated program.
2. Receive prior approval from the MSIT program director, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a Mixed Credit Form.

Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule period for the course(s). See the Graduate College for further information.

International Students Only

In addition to the requirements above, international applicants must also provide official TOEFL scores. Test must have been taken within the last two years of intended term of enrollment and sent to Missouri State University (code 6665) from ETS.

Degree requirements

The Master of Science in Information Technology is a 30 credit-hour program. Students typically complete the program in two years when taking two courses in each of the fall and spring semester and one course in the summer semester of each year. A maximum of two graduate-level courses (6 credit hours) taken at an approved post-secondary institution before acceptance into the program may be applied toward the degree if approved by the Program Director.

MSIT course offerings up to 30 credit hours:

- ITC 732 - Strategic IT Planning
- ITC 736 - Data Communications and Networking
- ITC 738 - Information Technology Project Management
- ITC 740 - IT System Development
- ITC 744 - Information Systems Management

- ITC 746 - Data Management
- ITC 747 - IT Legal Issues
- ITC 748 - Principles of Information Security
- ITC 754 - Organizational Transformation
- ITC 755 - Data Analysis and Visualization
- ITC 756 - Special Topics in Information Technology
- ITC 758 - Technological Innovation
- ITC 774 - Predictive Artificial Intelligence
- ITC 775 - Enterprise Data Analytics
- ITC 795 - Independent Study-Information Technology

Research

Research projects with oral or written reports may be required in any graduate MSIT course.

Project Management, MS

Program Description

The Master of Science in Project Management is an interdisciplinary and applied program which provides STEM (Science, Technology, Engineering and Mathematics) education to project management professionals from all disciplines.

Built upon the widely recognized Project Management Institute's (PMI) Project Management Body of Knowledge (PMBOK®), the program uses a combination of on-campus and distance learning resources to provide individuals with the knowledge and expertise to meet the intense global competition demands. The program may be completed 100% online.

The Master of Science in Project Management program is accredited by the Project Management Institute's Global Accreditation Center.

Admission Requirements

To be considered for admission, candidates are required to submit the following documents:

1. Official transcripts.
2. GMAT or GRE scores*.
3. Statement of purpose
4. Two letters of recommendation.
5. Professional resume.

*Program applicant's must apply for a waiver if they believe they qualify for an exception. Multiple factors are considered in the review of a waiver request including undergraduate and graduate course work, GPA, program accreditation, previous work experience, current job responsibilities and professional certifications. All GMAT/GRE waivers are considered on a case-by-case basis, and an approved wavier requires does not guarantee admission to the program.

Degree Requirements - Credit Hours: 30

The Master of Science in Project Management program requires completion of 30 hours.

Core Courses - Credit Hours: 21

- TCM 701 - Foundations of Project Management
- TCM 703 - Project Risk and Quality Management
- TCM 710 - Project Leadership and Communications Management
- TCM 645 - Program and Portfolio Management
- TCM 651 - Project Schedule and Cost Management
- TCM 740 - Agile Management of Innovation and Technology Seminar
- TCM 750 - Project Management Capstone

Cognate Elective Courses - Credit Hours: 9 for Seminar Option

At least one graduate level TCM course is required. Elective courses must be approved by the student's advisor prior to completion of the coursework.

Comprehensive Examination

A comprehensive examination must be passed with a minimum of 70 on a 100 scale before the degree is granted. Students must take this examination in their final semester.

Accelerated Master of Project Management Option

Exceptional Missouri State University undergraduate students with an overall GPA of 3.00 or higher may apply for the accelerated masters in Project Management program in their junior year. If approved, up to 12 hours of 600-level or 700-level courses may be designated as "mixed credit" and counted toward both the undergraduate and graduate degree programs.

Admission Requirements for the Accelerated Master's

To be considered for admission, candidates are required to submit the following documents:

- Official transcripts
- A statement of purpose
- Two letters of recommendation
- Professional resume

Certificates

Accountancy Certificate

Program Description

The Accountancy graduate certificate is an 18-hour graduate-level experience in the area of accountancy. The program involves study of topics related to financial accounting, managerial accounting, taxation, and accounting systems. Contact the Director of the School of Accountancy for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should meet minimum admission criteria for the Master of Accountancy program. All course work must be approved by the MAcc Program Director.

Required Courses - Hours: 18

- ACC 600 - Accounting Concepts for Managers
- ACC 601 - Intermediate Accounting I
- ACC 602 - Intermediate Accounting II
- ACC 610 - Managerial Cost Accounting
- ACC 620 - Tax Accounting I
- ACC 640 - Accounting and Management Information Systems

GPA Requirement

A minimum GPA of 3.00 is required to earn the certificate.

Accounting Analytics Certificate

Program Description

The Accounting Analytics Graduate Certificate is a 9 hour graduate-level experience in the area of data analytics in the accounting field. The program involves in-depth study of topics related to accounting analytics in accounting, including data analysis, data visualization, IT auditing, and others. Contact the Director of the School of Accountancy for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the certificate program. The candidate should meet minimum admission criteria for the Master of Accountancy program. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

*If a student took ACC 542 as an undergraduate student, the student must take ITC 645 to substitute for the ACC 642 requirement.

- ACC 642 - Data Analytics in Accounting *

Select Two of the Following:

- ACC 712 - Controllershship and Cost Analytics
- ACC 741 - Advanced Accounting and Management Information Systems

- ACC 751 - Computer Forensics and IT Auditing
- ACC 762 - Business and Accounting Concepts for Accountants
- ACC 794 - Internship: Accounting
- 3 credits of ACC 796 - Independent Study-Accounting

GPA Requirement

A minimum GPA of 3.00 is required to earn the certificate.

Accounting Technology Certificate

Program Description

The Accounting Technology graduate certificate is a 9-hour graduate-level experience in the area of accounting technology. The program involves study of topics related to accounting systems, accounting analytics, and emerging technology. Contact the Director of the School of Accountancy for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

Select three of the following:

- ACC 741 - Advanced Accounting and Management Information Systems
- ACC 751 - Computer Forensics and IT Auditing
- ACC 762 - Business and Accounting Concepts for Accountants
- ACC 790 - Current Topics in Corporate and International Accounting
- 3 hours of Accounting Technology related ACC 794 - Internship: Accounting
- 3 hours of Accounting Technology related ACC 796 - Independent Study-Accounting

GPA Requirement

A minimum GPA of 3.00 is required to earn the certificate.

Applied Economics Certificate

Program Description

This certificate is designed to give graduate students, who are interested in careers in government and business, a solid understanding of the quantitative and analytical skills that characterize the economic approach to policies and decisions.

Admission Criteria

The certificate is open to all students who have a bachelor's degree from an accredited University. Prerequisites for individual courses must, of course, also be met.

Program Requirements - Credit Hours: 12

- ECO 609 - Applied Econometrics
- Additional graduate-level Economics courses (600 or 700 level) **Credit Hours: 9**

Completion Requirements

Attain a GPA of 3.00 or higher for all courses used to fulfill the certificate requirements.

Cybersecurity Certificate

Program Description

The Cybersecurity Graduate Certificate program provides a 12 hours graduate-level experience in the field of cybersecurity. The program provides hands on labs to teach cybersecurity professionals how to secure and defend information systems from malicious attackers. Senior level security professionals working in retail, healthcare, military, and educational settings have curated the security curriculum to ensure immediate applicability.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the COB Graduate Program Director.

Required Courses - Credit Hours: 12

Choose any 3 of the following after ITC 760 Foundations of Cybersecurity:

- ITC 760 - Foundations of Cybersecurity
- ITC 663 - Telecommunications and Network Security
- ITC 664 - Ethical Hacking and Incident Response
- ITC 762 - Legal Issues in Cybersecurity
- ITC 765 - Computer Forensics
- ITC 766 - Web Application Security
- ITC 767 - Management of Information Security
- 3 credits of ITC 797 - Special Topics Requires permission of the Department Head.

GPA Requirement

Attain a grade point average of at least 3.00 on all graduate work utilized in the certificate program that includes Missouri State University and transfer courses.

Data Analytics Certificate

Program Description

The Data Analytics Graduate Certificate program provides a 12-hour graduate-level experience in the field of data analytics. The program provides knowledge and training in advanced statistical analysis, machine learning, data infrastructure, and data visualization.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- QBA 775 - Quantitative Methods in Business Decision Making
- ITC 735 - Neural Networks for Machine Learning
- ITC 645 - Data Infrastructure for Data Analytics
- ITC 655 - Data Visualization

GPA Requirement

Students must have a B- or better grade in each course and an overall GPA of 3.00 for the 12 hours to earn the certificate.

Entrepreneurship Certificate

Program Description

The Entrepreneurship Graduate Certificate program provides a 12 hours graduate-level experience in the entrepreneurship field. The program involves in depth study of new venture management, sources of capital, and growth management. Students will gain first-hand experience in assessing operations of existing entrepreneurship firms. Contact the MBA Director or Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MGT 790 - Seminar in Management
- ENT 643 - New Venture Management
- ENT 671 - Small Business Consulting

Select One of the Following:

- MGT 760 - Selected Topics in Management
- MGT 770 - Leadership Development
- 3 credits of MGT 796 - Independent Study: Business Administration
- MKT 790 - Seminar in Marketing
- FIN 790 - Seminar in Finance
- ITC 790 - Seminar in Management Information Systems

GPA Requirement

Students must have a B or better grade in each course.

Finance Certificate

Program Description

The Graduate Certificate in Finance provides a 12-hour graduate-level experience in the area of finance. The program involves in depth study of finance, including exposure to international issues. Contact the MBA Director or Program Coordinator for additional information.

Admission

- Candidates for the certificate program must be admitted to the University as a graduate student.
- The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program.
- All course work must be approved by the MBA Program Director.
- EMBA students must have a program of study approved by the Director of the EMBA program.

Required Courses - Credit Hours: 12

- FIN 787 - Seminar in Derivatives
OR
- FIN 790 - Seminar in Finance
- FIN 682 - International Financial Management
OR
- FIN 686 - International Financial Statement Analysis

- FIN 685 - Portfolio Management and Alternative Assets
- OR**
- FIN 687 - Security Valuation

Complete one course from the following

If a student has already completed a 500-level version of any 600-level course, they cannot count that course toward the Finance graduate certificate. They must choose another course from the "Complete one additional course...." list.

- FIN 638 - Introduction to Estate Planning
- FIN 670 - Foundations of Fintech
- FIN 681 - Professional Financial Planning
- FIN 682 - International Financial Management
- FIN 685 - Portfolio Management and Alternative Assets
- FIN 686 - International Financial Statement Analysis
- FIN 687 - Security Valuation
- FIN 689 - Management of Financial Institutions
- FIN 698 - Financial Research and Portfolio Management
- FIN 699 - Directed Study for CFA Level I Exam
- FIN 787 - Seminar in Derivatives
- FIN 790 - Seminar in Finance
- FIN 792 - International Education Abroad in Finance
- FIN 795 - Domestic Field Experience in Finance

Financial Accounting Certificate

Program description

The Financial Accounting graduate certificate is a 9-hour graduate-level experience in the area of financial accounting. The program involves study of topics related to advanced financial accounting concepts. Contact the Director of the School of Accountancy for additional information.

Entrance criteria

Candidates for the certificate program must be admitted to the University as a graduate student. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

Select three of the following:

- ACC 604 - Advanced Accounting
- ACC 642 - Data Analytics in Accounting
- ACC 703 - Seminar in Accounting Theory for Financial Executives

- ACC 705 - Advanced Financial Accounting Problems
- 3 Credits of ACC 796 - Independent Study-Accounting

GPA requirement

A minimum GPA of 3.00 is required to earn the certificate.

Financial Analysis Certificate

Program description

The Graduate Certificate in Financial Analysis is designed for students who wish to pursue a career in financial analysis. The certificate will help prepare students to pass the Level I Chartered Financial Analysis (CFA) Exam and will provide a foundation for further study in preparation for the Level II and Level III CFA Exams.

Admission requirements

1. The student must hold a bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A student must meet one of the following criteria for admission to the Graduate Certificate in Financial Analysis program:
 1. Satisfy the following condition: $(\text{Undergraduate GPA} \times 200) + \text{GMAT} \geq 1200$.
 2. Achieve an average GPA of 3.50 in the following three undergraduate courses: FIN 390, FIN 485, FIN 586 (or FIN 686 equivalent).
 3. Achieve an average GPA of at least 3.50 in the following three graduate courses: FIN 685, FIN 686, FIN 787.
3. The student must submit an application online.
4. Application Fee:
 1. For first-time degree-seeking graduate students, pay the non-refundable graduate application fee.
 2. Students applying online will be prompted to pay the fee by credit card or electronic check.
 3. NOTE: applications will not be processed if the graduate application fee has not been paid.
5. Transcripts:
 1. Submit to the Graduate College one (1) official transcript showing all course work for the bachelor's degree and any graduate-level work. At minimum, the bachelor's transcript must show grades for the last 60 hours of course work. Missouri State University transcripts do not need to be requested.
 2. NOTE: transcripts are not considered official unless they are received directly from the institution where the coursework was completed. A transcript that is hand-delivered by a student is considered unofficial even if it does have the seal from the institution or received in an unopened envelope. In addition, students sending transcripts while coursework for a bachelor's degree is in progress will need to send another official copy showing that they have been awarded a bachelor's degree.
6. Acceptance into this certificate program does not imply acceptance into any other Missouri State University master's program.

Prerequisite courses

The following foundation courses (or their equivalents) are considered prerequisite courses for the Graduate Certificate in Financial Analysis program:

- ACC 600 - Accounting Concepts for Managers (typical equivalent is ACC 201 and ACC 211)

- ECO 600 - Fundamentals of Economics (typical equivalent is ECO 155 and ECO 165)
- FIN 600 - Managerial Finance (typical equivalent is FIN 380 with a grade of B- or better)
- QBA 600 - Statistical Methods in Business Research (typical equivalent is QBA 237 and QBA 337)

A student that has completed an undergraduate degree in finance or a related field will generally have satisfied most or all of the prerequisite course requirements.

Required courses - Credit Hours: 12-18

- FIN 682 - International Financial Management *
- FIN 685 - Portfolio Management and Alternative Assets *
- FIN 686 - International Financial Statement Analysis *
- FIN 687 - Security Valuation *
- FIN 787 - Seminar in Derivatives
- FIN 699 - Directed Study for CFA Level I Exam
- OR**
- FIN 799 - Directed Study for CFA Level II Exam

*Up to 6 hours of these 600-level classes can be waived if the student has completed the undergraduate version of the course with a grade of B- or better. If the student has completed three of the four classes at the undergraduate level with a grade of B- or better, they must also take QBA 775. If the student has completed all four classes at the undergraduate level with a grade of B- or better, they must also take FIN 670 and QBA 775. The Graduate Certificate in Financial Analysis requires a minimum of 12 hours.

Fintech Certificate

Program Description

- Provides a 15 hour graduate-level experience in the area of finance and technology.
- The program involves in depth study of fintech. Contact the MBA Director or Program Coordinator for additional information.

Admission Criteria

- The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program.
- All course work must be approved by the MBA Program Director.
- EMBA students must have a program of study approved by the Director of the EMBA program.

Required Courses - Credit Hours: 15

- FIN 670 - Foundations of Fintech ¹
- FIN 685 - Portfolio Management and Alternative Assets ¹
- OR**
- FIN 687 - Security Valuation ¹

- FIN 689 - Management of Financial Institutions ¹
- ITC 735 - Neural Networks for Machine Learning
- ITC 680 - Fundamentals of Blockchain Technology

Note:

¹ Course may be waived if the 500-level undergraduate equivalent of the course has already been completed. However, no more than 6 hours may be waived from the program.

Forensic Accounting Certificate

Program Description

The Forensic Accounting Certificate program provides a 9 hour graduate-level experience in the forensic accounting field. The program involves in depth study of forensic accounting and information technology topics, including fraud examination, litigation support, financial expert witnessing, business valuation, investigative data mining and others. Contact the Director of the School of Accountancy or the MAcc Program Director for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree in accounting and meet minimum admission criteria for the Master of Accountancy program. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

- ACC 754 - Forensic Accounting: Litigation Support and Expert Witnessing

Select Two of the Following:

- ACC 741 - Advanced Accounting and Management Information Systems
- ACC 750 - Advanced Auditing
- ACC 751 - Computer Forensics and IT Auditing
- ACC 752 - Fraud Examination
- ACC 790 - Current Topics in Corporate and International Accounting
- ACC 794 - Internship: Accounting
- 3 credits of ACC 796 - Independent Study-Accounting

GPA Requirement

A minimum GPA of 3.0 is required to earn this certificate.

Health Professions Administrative Leadership Certificate

Program Description

The Certificate in Health Professions Administrative Leadership (CHPAL) is a graduate certificate program designed for healthcare professionals who wish to enhance and update their knowledge in healthcare administration in order to increase their skill set to better position themselves for advancement. It also will assist students with no healthcare experience seeking entry-level management positions in healthcare organizations.

Admission

To be considered for the program, a student must meet the Graduate College Admission requirements.

Admission to the MHA program from CHPAL

Admission to and successful completion of the CHPAL does not guarantee admission to the MHA program. Students who are enrolled in or have completed this certificate must apply separately for admission to the MHA and comply with the MHA admission standards and the requirements of the Graduate College. Students may begin in the Fall or Spring semester. Credits earned in the certificate program can be applied to the MHA degree subject to the application and acceptance into the program.

Required Courses - Credit Hours: 12

- MGT 701 - Health Services Organization
- MGT 702 - Managing Healthcare Organizations
- MGT 703 - Health Law and Ethics
- MGT 704 - Human Resources in Healthcare Organizations
- MGT 705 - Strategic Management of Healthcare Organizations
- MGT 708 - Healthcare Informatics
- MGT 770 - Leadership Development
- PLS 754 - Seminar in Health Policy
- OTE 901 - Advanced Ethics and Advocacy

Information Technology Certificate

Program Description

The Information Technology Graduate Certificate program provides a 12 hours graduate-level experience in the computer information systems field. The program involves in depth study of computer security, project management, neural networks, and current research in management information systems. Contact the COB Graduate Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- ITC 790 - Seminar in Management Information Systems

Select Three Courses (9 Hours) From the Following:

- ITC 628 - Database Application Development with Oracle
- ITC 645 - Data Infrastructure for Data Analytics
- ITC 655 - Data Visualization
- ITC 663 - Telecommunications and Network Security
- ITC 664 - Ethical Hacking and Incident Response
- ITC 681 - Data Analytics for Business Decision Making
- ITC 683 - Cloud Computing
- ITC 720 - Project Management in Information Systems
- ITC 735 - Neural Networks for Machine Learning
- ITC 760 - Foundations of Cybersecurity
- ITC 761 - Management Information Systems
- ITC 762 - Legal Issues in Cybersecurity
- ITC 766 - Web Application Security
- ITC 767 - Management of Information Security
- ITC 794 - Internship: Information Technology and Cybersecurity *
- 3 credits of ITC 796 - Independent Study-Information Technology and Cybersecurity *
- 3 credits of ITC 797 - Special Topics *

Note:

* Requires permission of the Department Head

GPA Requirement

Attain a grade point average of at least 3.00 on all graduate work utilized in the certificate program that includes Missouri State University and transfer courses.

International Business Certificate

Program Description

The International Business Graduate Certificate program provides a 12 hours graduate-level experience in the international business field. The program involves in depth study of international business, including issues related to management, marketing and finance. Contact the MBA Director or Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MGT 747 - International Management

Select Three of the Following:

- MKT 764 - Global Supply Chain Management
- FIN 686 - International Financial Statement Analysis
- MGT 790 - Seminar in Management
- 3 hours of MGT 796 - Independent Study: Business Administration
- MKT 774 - International Marketing
- FIN 682 - International Financial Management

GPA Requirement

Students must have a B or better grade in each course.

Leadership Certificate

Program Description

The Leadership Graduate Certificate program provides a 12 hours graduate-level experience in the leadership area. The program involves in depth study of leadership skills, theory, research, and self-assessment. Contact the MBA Director or Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MGT 764 - Organizational Behavior and Leadership
- MGT 770 - Leadership Development
- MGT 767 - Organization Strategy and Policy

Select One of the Following:

- 3 credits of MGT 796 - Independent Study: Business Administration

- LAW 632 - Legal Environment of Business Organizations for Professionals
- LAW 650 - Negotiation, Mediation, and Arbitration in Business

GPA Requirement

Students must have a B or better grade in each course.

Management Accounting Certificate

Program Description

The management accounting graduate certificate is a 9 hour graduate-level experience in the area of management accounting. The program involves in depth study of topics related to cost accounting, cost analytics, finance, and economics. Contact the Director of the School of Accountancy for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should meet minimum admission criteria for the Master of Accountancy program. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

- ACC 712 - Controllershship and Cost Analytics

Select 2 Courses from the Following:

- ACC 613 - Managerial Cost Accounting II
- ACC 794 - Internship: Accounting
- 3 credits of ACC 796 - Independent Study-Accounting
- FIN 682 - International Financial Management
OR
- FIN 686 - International Financial Statement Analysis
- ECO 604 - Health Care Economics
OR
- ECO 615 - Public Sector Economics
OR
- ECO 640 - Environmental, Resource, and Energy Economics
- ECO 665 - International Economics

GPA Requirement

A minimum GPA of 3.0 is required to earn the Management Accounting Graduate Certificate.

Management Certificate

Program Description

The Management Graduate Certificate program provides a 12-hour graduate-level experience in the management field. The program involves in depth study of current management research, international, human resources, and operations management issues. Contact the MBA Director or Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MGT 747 - International Management
- MGT 764 - Organizational Behavior and Leadership
- MGT 767 - Organization Strategy and Policy

Select One of the Following:

- MGT 646 - Direct Compensation System Management
- MGT 701 - Health Services Organization
- MGT 762 - Problems in Human Resources Management and Industrial Relations
- MGT 770 - Leadership Development
- MGT 790 - Seminar in Management
- 3 credits of MGT 796 - Independent Study: Business Administration
- ENT 643 - New Venture Management
- ENT 671 - Small Business Consulting

GPA Requirement

Students must have a B or better grade in each course.

Marketing Analytics Certificate

Program Description

This certificate is designed to provide students with a set of skills for collecting, editing and analyzing marketing data.

Admission

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MKT 670 - Marketing Analytics

Choose 3 Courses From the List Below:

- MKT 610 - Digital and Social Media Marketing
- MKT 790 - Seminar in Marketing
- ITC 655 - Data Visualization
- QBA 775 - Quantitative Methods in Business Decision Making

GPA Requirement

Students must have a B or better grade in each course.

Marketing Certificate

Program Description

The Marketing Graduate Certificate program provides a 12-hour graduate-level experience in the marketing field. The program involves in depth study of marketing issues, such as advertising, international issues, marketing research and special topics. Contact the MBA Director or Program Coordinator for additional information.

Admission

Candidates for the certificate program must be admitted to the university as a graduate student. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program. All course work must be approved by the MBA Program Director.

Required Courses - Credit Hours: 12

- MKT 615 - Contemporary Issues in Advertising/Promotion
- MKT 774 - International Marketing
- MKT 790 - Seminar in Marketing
- MKT 670 - Marketing Analytics

GPA Requirement

Students must have a B or better grade in each course.

Project Management Certificate

Program Description

The Certificate in Project Management provides a 12-hour graduate-level experience with application in diverse industries and organizations. The certificate is designed to meet the needs of individuals who are established in careers and are seeking professional growth and advancement within their professions.

Admission Criteria

To be considered for the program, candidates are required to submit the following documents.

- Official transcripts
- GMAT or GRE scores*
- Statement of purpose
- Two letters of recommendation
- Professional Resume

*Program applicant's must apply for a waiver if they believe they qualify for an exception. Multiple factors are considered in the review of a waiver request including undergraduate and graduate course work, GPA, program accreditation, previous work experience, current job responsibilities and professional certifications. All GMAT/GRE waivers are considered on a case-by-case basis, and an approved wavier requires does not guarantee admission to the program.

Required Courses

Select 12 hours from the following

- TCM 611 - Product Design and Development
- TCM 645 - Program and Portfolio Management
- TCM 651 - Project Schedule and Cost Management
- TCM 701 - Foundations of Project Management
- TCM 703 - Project Risk and Quality Management
- TCM 710 - Project Leadership and Communications Management
- TCM 720 - Project Management Training
- TCM 740 - Agile Management of Innovation and Technology Seminar
- TCM 750 - Project Management Capstone

GPA Requirements

Students must attain a grade point average of at least 3.00 on all graduate course work at Missouri State University.

Quantitative Enterprise Risk Management Certificate

Program Description

The graduate certificate in Quantitative Enterprise Risk Management provides a 12 hour in-depth graduate-level experience in the area of Risk Management and insurance.

Admission Process

Admission to the certificate program requires all of the following:

1. The candidate should have a bachelor's degree and meet minimum admission criteria for the Master of Business Administration program.
2. All course work must be approved by the MBA Program Director.
3. EMBA students must have a program of study approved by the Director of the EMBA program.

Required Courses - Credit Hours: 12

Choose 4 courses (12 hours) from the lists below:

Required Courses - Credit Hours: 9

- FIN 787 - Seminar in Derivatives
- RMI 620 - Risk Modeling and Analytics
- RMI 630 - Risk Transfer

Complete one course from the following - Credit hours: 3

If a student already completed the corresponding 500-level course of a 600-level course from the list, they may not take the 600-level course.

- ITC 748 - Principles of Information Security
- ITC 760 - Foundations of Cybersecurity
- FIN 682 - International Financial Management
- FIN 685 - Portfolio Management and Alternative Assets
- FIN 686 - International Financial Statement Analysis
- FIN 687 - Security Valuation
- FIN 689 - Management of Financial Institutions
- FIN 698 - Financial Research and Portfolio Management
- RMI 785 - Advanced Topics in Risk Management and Insurance
- RMI 792 - International Education Abroad in Risk Management and Insurance
- RMI 795 - Domestic Field Experience in Risk Management and Insurance

Supply Chain Management Certificate

Program Description

The Supply Chain Management Graduate Certificate requires 12 credit hours with two required courses and two elective courses.

Required Courses:

- MKT 675 - Business Process Management
- MKT 730 - Logistics and Transportation

Select two from the following courses:

- MKT 740 - Supply Chain Models and Systems
- MKT 764 - Global Supply Chain Management
- MKT 772 - Marketing Management

- MKT 790 - Seminar in Marketing
- OR
- TCM 740 - Agile Management of Innovation and Technology Seminar

Tax Accounting Certificate

Program Description

The Tax Accounting Graduate Certificate program provides a 9 hour graduate-level experience in the tax accounting field. The program involves in depth study of tax accounting topics, including individual taxation, corporate taxation, tax planning, applied tax problems and others. Contact the Director of the School of Accountancy or the MAcc Program Director for additional information.

Entrance Criteria

Candidates for the certificate program must be admitted to the University as a graduate student. The candidate should have a bachelor's degree in accounting and meet minimum admission criteria for the Master of Accountancy program. All course work must be approved by the MAcc Program Director.

Required Courses - Credit Hours: 9

Select 3 courses from the list below.

- ACC 624 - Tax Accounting II
- ACC 721 - Research Techniques and Consulting in Tax
- ACC 723 - Tax Considerations for Decision Makers
- ACC 726 - Regulation Issues for Accountants
- ACC 794 - Internship: Accounting
- 3 credits of ACC 796 - Independent Study-Accounting

GPA Requirement

A minimum GPA of 3.00 is required to earn this certificate.

College of Education

Academic Units

Schools

- School of Special Education, Leadership and Professional Studies
- School of Teaching, Learning and Developmental Sciences
- Greenwood Laboratory School (non-degree granting)

Centers/Departments

- Secondary Education
- Center for Rural Education
- Child Development Center (non-degree granting)

Missouri State Board of Education approved programs

The following professional education programs have received continuing accreditation by the Missouri Department of Elementary and Secondary Education for purposes of teacher preparation and certification.

Childhood Education and Family Studies

- Early Childhood Education (Birth-grade 3)
- Elementary Education (1-6)
- Middle School (5-9):
 - Language Arts
 - Social Studies
 - Mathematics
 - Science
- Additional Middle School endorsements can be added in:
 - Agriculture*
 - Drama*
 - Speech*

Communication Sciences and Disorders

- Speech/Language Specialist (K-12)
- Deaf/Hearing Impaired (Birth-grade 12)

Counseling, Leadership, and Special Education

- Special Education:
 - Mild/Moderate: Cross Categorical (K-12)
 - Blind and Partially Sighted (Birth-grade 12)

Secondary Education (9-12 and K-12)

- Agriculture (9-12)
- Art (K-12)
- Business Education (9-12)

- English (9-12)
 - English Language Learners (K-12)*
- Family and Consumer Sciences (K-12)
- History (Social Science) (9-12)
- Language, Modern (K-12)
 - Chinese
 - French
 - German
 - Japanese
 - Latin
 - Spanish
- Mathematics (9-12)
- Music (K-12)
 - Instrumental
 - Vocal/Choral
- Physical Education (K-12)
 - Driver's Education (9-12)*
 - Health (K-12)*
- Speech/Theatre (9-12)

*Only available as an additional area of certification. Student must be concurrently enrolled in another area of Elementary, Middle School, or Secondary Education.

Teacher Certification (Postbaccalaureate)

Students who have already obtained a bachelor's degree and are seeking state of Missouri teacher certification should contact the Office of Professional Education Certification. Learn more: [Professional Education Certification](#)

[Contact](#)

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Master's Programs

Child Life Studies, MS

Program Description

The Master of Science in Child Life Studies prepares students to excel as Certified Child Life Specialists (CCLS) in healthcare and other settings by fully developing and enhancing the professional knowledge and skills necessary to provide effective child life services with children and their families who are experiencing stressful or traumatic situations.

The standard track prepares students to become practicing Certified Child Life Specialists who work to minimize the psychological stress and trauma that children and their families experience during stressful events. The coursework in the standard track incorporates the theoretical foundations of the child life profession and allows students to apply this theoretical knowledge into their practicum and child life internship students. Students learn developmentally appropriate techniques to minimize stress and anxiety, and enhance the coping skills of children and their families, including the benefits of therapeutic play, preparation and education, advocacy for patient- and family-centered care, and legacy building and bereavement support, and positive diversion during medical procedures.

The advanced track prepares students for greater professional responsibility as Certified Child Life Specialists, including the application of research into clinical practice, the role of mentor to colleagues, the attainment of healthcare leadership positions or the pursuit of doctoral studies. The coursework in the advanced track is designed to enhance students' understanding of the research that supports child life practice and to facilitate students' development of their own research initiatives within their practice as Certified Child Life Specialists.

Admission Requirements

All candidates must meet the requirements for admission as a graduate student to Missouri State University **and** the child life studies graduate program.

Application Deadlines

All application materials must be received by the following dates.

Summer/Fall semester = Feb. 15th

Spring semester = Oct. 1st

Advanced Track Admission Requirements

- Bachelor's degree with an emphasis or minor in child life **or** a bachelor's degree and currently hold certification as a Child Life Specialist
- Cumulative undergraduate grade point average of 3.00 or higher
- Applicants for whom English is not their primary language are required to demonstrate graduate-level proficiency in English by either having achieved a score of 550 on the paper-based, or a comparable score of 79 on the IBT or internet-based TOEFL, or by other equivalent means.

Standard Track Admission Requirements

- Bachelor's degree with no emphasis or minor in child life studies
- Cumulative undergraduate grade point average of 3.00 or higher
- Applicants for whom English is not their primary language are required to demonstrate graduate-level proficiency in English by either having achieved a score of 550 on the paper-based, or a comparable score of 79 on the IBT or internet-based TOEFL, or by other equivalent means.
- Minimum of 100 documented volunteer hours working with children or youth in a health care facility

Advanced Track Application Materials

In addition to the university graduate admission materials, the following application materials must also be submitted.

- Child life studies graduate program application
- Letter of intent, including background information about professional/volunteer experiences, professional goals and future plans, with **1,000 words or less**
- Résumé
- Two confidential letters of recommendation: One from the academic setting (or someone that can speak to your ability to succeed in a graduate program) and one from the clinical setting (or someone that can speak to your ability with children and families). Confidential letters of recommendation **must** be submitted within the Grad CAS application system.
- Copy of the certified child life specialist, a.k.a. CCLS, certificate, if applicable

Standard Track Application Materials

In addition to the university graduate admission materials, the following application materials must also be submitted.

- Child life studies graduate program application Letter of intent, including background information about professional/volunteer experiences, professional goals, and future plans, with **1,000 words or less**
- Signed documentation of a minimum of 100 volunteer hours in a pediatric health care facility.
- Résumé
- Two confidential letters of recommendation: One from the academic setting (or someone that can speak to your ability to succeed in a graduate program) and one from the clinical setting (or someone that can speak to your ability with children and families). Confidential letters of recommendation **must** be submitted within the Grad CAS application system.

Accelerated Graduate Program

The Master of Science in Child Life Studies accelerated graduate program provides exceptional Missouri State University undergraduate students with the opportunity to enroll in a combined baccalaureate and master's degree program.

Eligible child and family development, a.k.a. CFD, child life option majors may apply for preliminary acceptance into the child life studies graduate program. Once accepted, students will have the opportunity to take 12 hours of graduate-level child and family development coursework that could apply to both their undergraduate and graduate degrees.

Note: Only CFD 610 fulfills a required course for the accelerated graduate program. The three additional courses - CFD 657, CFD 662, CFD 663, CFD 680 - can fulfill support electives for the accelerated graduate program.

Accelerated Admission Requirements

To be considered for admission, the following requirements must be fulfilled:

- Officially admitted into the Bachelor of Science child and family development, child life option, program
- Cumulative undergraduate GPA of 3.00 or higher
- Completed or currently enrolled in CFD 354 Working with the Hospitalized Child with achievement of a B or higher

Accelerated Admission Procedure

Students are encouraged to apply to the Child Life Studies accelerated graduate program the semester prior to taking CFD 510, 557, 562, 563 and 580. Before enrolling in courses to be counted for both undergraduate and graduate credit (i.e. mixed), an undergraduate student must be admitted into the accelerated graduate program and receive prior approval from the Graduate Program Director of Child Life Studies, the School Director of Teaching, Learning and Developmental Sciences, and the Dean of the Graduate College through the use of a mixed credit form.

A student will be fully admitted to the Graduate College upon the completion of the requirements for the baccalaureate degree, provided the student meets all other requirements for admission to the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the change of schedule period for the courses. See the Graduate College for further information.

Accelerated Application Materials

The following application materials must be submitted to the Graduate Program Director of Child Life Studies:

1. Child life studies graduate program application
2. Letter of intent, including background information about professional/volunteer experiences, professional goals, and future plans, with **1,000 words or less**
3. Résumé

Accelerated Degree Requirements

Students admitted into the accelerated graduate program will follow the Master of Science in child life studies **advanced track** degree plan. The following criteria must be successfully completed by the candidate before a degree will be granted.

- Satisfactory completion of a minimum of 35 approved graduate hours with a minimum overall GPA of 3.00
- Completion of 26-29 hours of required coursework

Degree Requirements - Credit Hours: 35 or 44

Advanced Track - Credit Hours: 35

The following criteria must be successfully completed by the candidate before a degree will be granted.

- **Coursework:** Satisfactory completion of a minimum of 35 approved graduate hours with a minimum overall GPA of 3.00. Including completion of 26-29 hours of required coursework and 6-9 hours of support electives. No more than 16 hours of 600-level coursework may be applied to the graduate degree.
- **Research:** Option 1 - Satisfactory completion of Evidence-based Practice (EBP) Statement or other non-thesis creative work facilitated through CLS 797. Option 2 - Satisfactory completion of a thesis research project by a thesis committee.
- **Comprehensive Examination:** A passing score on the comprehensive examination
- **Transfer Credit:** Candidates may transfer in no more than six credit hours. All transfer credit must be an "A" or "B" grade status from an accredited college or university and approved by the Graduate Program Coordinator of Child Life Studies.
- CFD 610 - Child Life Theory and Practice
- CFD 750 - Advanced Human Development Studies
- CFD 761 - Advanced Family Studies
- ECE 675 - Working with Culturally and Linguistically Diverse Children and Families in Early Childhood
OR
- ECE 727 - Children and Families in a Diverse Society
- CLS 701 - Introduction to Child Life Studies
- CLS 720 - Trends and Issues in Child Life
- CLS 790 - Practicum in Child Life *
OR
- CLS 795 - Child Life Internship **
- CLS 794 - Evidence-Based Practice Proposal
OR
- CLS 798 - Proposal Development for Child Life Thesis
- CFD 680 - Introduction to Research in Child and Family Development
OR
- SFR 780 - Educational Research Methodology
- CLS 797 - Evidence-Based Practice Research
OR
- CLS 799 - Thesis Research in Child Life
- Electives **Credit Hours:** 6-9

Note:

*Students who register for CLS 790 - Practicum in Child Life will take 9 hours of electives.

**Students who register for CLS 795 will take variable hours of electives.

Students may choose to take additional practicum hours (CLS 791) or additional internship hours (CLS 796) to maintain full time status.

Supported Electives

- CLS 705 - Aspects of Childhood Illness and Disease
- CLS 710 - Childhood Death and Bereavement
- CLS 715 - Play and Therapeutic Intervention
- CLS 730 - Cultivating a Trauma-Informed Lens
- PSY 622 - Physiological Psychology
- PSY 711 - Introductory Statistics for Education and Psychology
- PSY 745 - Statistics and Research Design
- PSY 766 - Psychopathology
- PSY 767 - Behavior Disorders of Childhood
- 3 credits of CFD 600 - Issues in Child and Family Development
- CFD 662 - Prevention of Child Abuse and Neglect
- CFD 663 - Administration of Programs for Children and Families
- CFD 657 - Growth and Development: Middle Childhood to Adolescence
- CFD 705 - Growth and Development: Infancy through Early Childhood
- CFD 775 - Parent and Child Relations
- CFD 776 - Advanced Studies in Infant Development
- COM 705 - Health Communication
- SPE 730 - Health, Functional, and Psychosocial Aspects of Disability
- CSD 669 - Psycho-Social Implications of Being Deaf and Hard of Hearing
- SWK 696 - Health Literacy in the Human Services
- SWK 750 - Social Work Practice I: Advanced Generalist Practice with Individuals
- EDT 640 - Technology Administration and Management
- NUR 632 - Rural Health
- NUR 703 - Population Health: A Local to Global Perspective

Standard Track - Credit Hours: 44

The following criteria must be successfully completed by the candidate before a degree will be granted.

- **Coursework:** Satisfactory completion of a minimum of 44 approved graduate hours with a minimum overall GPA of 3.00. Including completion of 35-38 hours of required coursework and 6-9 hours of support electives. No more than 16 hours of 600-level coursework may be applied to the graduate degree.
- **Research:** Option 1 - Satisfactory completion of Evidence-based Practice (EBP) Statement or other non-thesis creative work facilitated through CLS 797. Option 2 - Satisfactory completion of a thesis research project by a thesis committee.
- **Comprehensive Examination:** A passing score on the comprehensive examination
- **Transfer Credit:** Candidates may transfer in no more than six credit hours. All transfer credit must be an "A" or "B" grade status from an accredited college or university and approved by the Graduate Program Coordinator of Child Life Studies.
- CFD 761 - Advanced Family Studies
- CFD 610 - Child Life Theory and Practice
- CFD 657 - Growth and Development: Middle Childhood to Adolescence
- CFD 705 - Growth and Development: Infancy through Early Childhood
- ECE 675 - Working with Culturally and Linguistically Diverse Children and Families in Early Childhood
- OR**
- ECE 727 - Children and Families in a Diverse Society
- CLS 701 - Introduction to Child Life Studies

- CLS 705 - Aspects of Childhood Illness and Disease
- CLS 710 - Childhood Death and Bereavement
- CLS 715 - Play and Therapeutic Intervention
- CLS 790 - Practicum in Child Life *
- OR**
- CLS 795 - Child Life Internship **

- CLS 794 - Evidence-Based Practice Proposal
- OR**
- CLS 798 - Proposal Development for Child Life Thesis

- CFD 680 - Introduction to Research in Child and Family Development
- OR**
- SFR 780 - Educational Research Methodology
- CLS 797 - Evidence-Based Practice Research
- OR**
- CLS 799 - Thesis Research in Child Life
- Supported Electives **Credit Hours:** 6-9

Note:

*Students who register for CLS 790 - Practicum in Child Life will take 9 hours of electives.

**Students who register for CLS 795 - Child Life Internship will take 6 hours of electives.

Students may choose to take additional practicum hours (CLS 791) or additional internship hours (CLS 796) to maintain full time status.

Supported Electives

- CLS 720 - Trends and Issues in Child Life
- CLS 730 - Cultivating a Trauma-Informed Lens
- CLS 790 - Practicum in Child Life
- PSY 622 - Physiological Psychology
- PSY 711 - Introductory Statistics for Education and Psychology
- PSY 745 - Statistics and Research Design
- PSY 766 - Psychopathology
- PSY 767 - Behavior Disorders of Childhood
- 3 credits of CFD 600 - Issues in Child and Family Development
- CFD 662 - Prevention of Child Abuse and Neglect
- CFD 663 - Administration of Programs for Children and Families
- CFD 750 - Advanced Human Development Studies
- CFD 775 - Parent and Child Relations
- CFD 776 - Advanced Studies in Infant Development
- COM 704 - Health Communication and Culture
- COM 705 - Health Communication
- COM 708 - Patient-Provider Communication
- SPE 730 - Health, Functional, and Psychosocial Aspects of Disability
- CSD 669 - Psycho-Social Implications of Being Deaf and Hard of Hearing

- SWK 696 - Health Literacy in the Human Services
- SWK 750 - Social Work Practice I: Advanced Generalist Practice with Individuals
- EDT 640 - Technology Administration and Management
- NUR 632 - Rural Health
- NUR 703 - Population Health: A Local to Global Perspective

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted.

Early Childhood and Family Development, MS

Program Description

The graduate program in Early Childhood and Family Development is designed for individuals who work with, or who are interested in working with, young children and/or families. The three pillars (Ethical Leadership, Cultural Competence, and Community Engagement) of the Missouri State Public Affairs Mission are an integral part of this degree throughout required courses, elective offerings and opportunities provided by program faculty, the college and the university. This degree is appropriate for a large number of persons working with children and families in a variety of settings. In addition to a core of required courses, students will choose electives that best meet their professional needs. This flexibility allows students to develop a program of study to meet their needs. Although it is not a certification program, some of the courses may be able to be taken for certification credit. This will be done individually for each student. The program has a core set of courses that provide a strong early childhood and child development background. There are also a wide variety of electives that can be taken to round out the degree according to the individual needs of the student.

Program Admission Requirements

Admission requires the following minimum criteria:

1. A minimum GPA of 3.00 for courses taken in the last 60 hours of course work in the undergraduate program. Students who do not meet the GPA requirement must take the Graduate Record Examination (GRE). GRE minimum scores must be provided prior to the student's registering for more than 9 hours.
2. Applicants for whom English is a second language are required to submit appropriate proof of English proficiency. Requirements for TOEFL (minimum 550 -paper or 213 computer); iBT TOEFL (79); IELTS (6); or MSU ELI (Level 5) are required for admission.
3. To be considered for admission to this program, a student must submit both the Graduate Application and submit the required Early Childhood and Family Development documents.
4. Students must possess a bachelor's degree and must meet the requirements for admission to the graduate school as states under the Admission to Graduate Studies section of the Graduate Catalog.
5. Additional materials must be submitted.
 - A. A letter of intent containing professional goals, future plans, background information, and professional experiences.
 - B. Submission of two letters of recommendation from professionals familiar with the candidate's academic abilities and potential.
 - C. Completion of any required prerequisite courses or permission from the Director of the Early Childhood and Family Development Program.
6. Students may transfer in no more than 9 credit hours which must be approved by the advisor.

Required Courses

Courses may count only once in meeting the 32-hour program course requirement.

Required Core Courses - Credit Hours: 23

- CFD 701 - Orientation to Early Childhood and Family Development
- CFD 750 - Advanced Human Development Studies
- ECE 725 - Inquiry in Early Childhood and Family Development
- CFD 761 - Advanced Family Studies
- **OR**
- ECE 726 - Programming and Policy Issues for Early Childhood Settings
- ECE 727 - Children and Families in a Diverse Society
- CFD 765 - Research Methodology in Early Education, Child Development, and Family Studies
- ECE 771 - Proposal Development
- ECE 762 - Seminar in Early Childhood and Family Development

Elective Courses - Credit Hours: 9

Courses may be selected with the recommendation and approval of student's advisor. These courses can include a variety of classes from our program and related programs. Below are examples of some course electives, however, other course options are available in consultation with your advisor.

- ECE 601 - Home/School/Community Relationships with Young Children and Their Families
- ECE 705 - Field Experiences in Early Childhood Education
- ECE 724 - Foundations of Early Childhood Education
- ECE 728 - The Educational Role of Play
- ECE 729 - Literacy in Early Childhood
- ECE 730 - Family Literacy
- CFD 702 - Community Engagement
- CFD 632 - Family Advocacy
- CFD 633 - Principles of Family Life Education
- CFD 662 - Prevention of Child Abuse and Neglect
- ELE 713 - Advanced Theory and Practice in the Teaching of Communication Arts
- ELE 720 - Advanced Theory and Practice in Student Assessment and Evaluation
- PSY 604 - Forensic Child Psychology
- PSY 629 - Psychological Tests and Measurements
- LTC 640 - Analysis and Correction of Difficulties in Literacy
- LTC 700 - Relationship of Language to Literacy and Intellectual Development

Degree Requirements

1. Satisfactory completion of a minimum of 32 approved graduate hours with a minimum overall GPA of 3.00.
2. No more than 16 hours of 600-level course work may be applied to the degree program.
3. **Comprehensive Examination.** A comprehensive examination must be passed by the candidate before a degree will be granted.
4. **Research.** Completion of one seminar which shall require an extensive paper or major creative work.

5. **Transfer Credit.** A maximum of 9 credit hours of graduate credit may be accepted toward a master's degree. All transfer credit must be "A" or "B" grade status from a regionally accredited college or university and must be approved by the Department Head or student's advisor.

Accelerated Masters Program in Early Childhood and Family Development

The Accelerated Masters Program option in Early Childhood and Family Development provides an opportunity for outstanding undergraduate child and family development majors, early childhood education majors, elementary education majors, and psychology majors to begin their graduate course work during their junior or senior year.

If accepted into the accelerated program, up to a maximum of 12 hours of graduate courses taken after admission into the program may be given credit for both undergraduate and graduate programs.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program, and receive prior approval from the graduate program advisor, and complete a "Mixed Credit" form. This form can be obtained from the student's department or the Graduate College. Mixed credit registration must be done in person.

Admission Requirements for CFD, ECE, ELE, and PSY Majors Include:

1. Junior or Senior standing
2. Overall GPA of 3.25 or higher
3. To be considered for admission to the program, a student must apply to both the Graduate College and the Early Childhood and Family Development Graduate Program

Early Childhood Special Education, MSEd

Program Description

The Accelerated Master of Science in Education - Early Childhood Special Education is designed for students pursuing either a Special Education or Early Childhood Education undergraduate degree who want certification in Early Childhood Special Education. This degree will prepare candidates to serve eligible young children and their families through a model of collaboration with educators, related service personnel, health care workers and other community-based service providers. Successful candidates will be able to provide special education services in infant/toddler, preschool, or primary settings up to third grade

Admission Requirements for the Accelerated Master

1. Junior status with a G.P.A. of 3.0 or better;
2. Admission to Teacher Education;
3. For early childhood education students, completion of CFD 260 (Observing, Assessing, & Implementing Activities for Young Children);
4. For special education students, completion of SPE 345 (Educational Evaluation of Exceptional Students) and SPE 346 (Educational Evaluation of Exceptional Students Lab);
5. Acceptance of the applicant by the graduate faculty of both the Special Education and Early Childhood Education under the accelerated master's option.

Program Admission Procedure

In addition to the submission of the Graduate Application for Admission and application fee, the candidate must also submit the following materials.

1. A letter of intent containing professional goals, future plans, background information, and professional experiences.
2. Submission of two letters of recommendation from professionals familiar with the candidate's academic abilities and potential.
3. Completion of any required prerequisite courses or permission from the Graduate Director.
 - Students may transfer in no more than 6 credit hours that must be approved by the Graduate Director.
 - Students must complete a Program of Study with their advisor prior to completing 15 credit hours. Students and their advisor should monitor the online Degree Audit to ensure appropriate progress .

If accepted to the accelerated master's program, up to 12 hours of course work may apply to both the undergraduate and graduate degrees. Mixed credit coursework varies by the undergraduate program.

Mixed Credit Courses for Early Childhood Education majors

- CFD 660 - Family Engagement
- CFD 663 - Administration of Programs for Children and Families
- ECE 601 - Home/School/Community Relationships with Young Children and Their Families
- SPE 623 - Curriculum and Methods in Early Childhood Special Education

Mixed Credit Courses for Special Education majors

- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders
- SPE 660 - Working with Families of Exceptional Individuals
- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- OR**
- SPE 787 - Advanced Behavioral Analysis and Intervention
- SPE 779 - Application of Technology in Special Education

Program Requirements

Requirements for Early Childhood Education majors - Credit Hours: 38 total

Mixed Credit Courses - Credit Hours: 12

- CFD 660 - Family Engagement
- CFD 663 - Administration of Programs for Children and Families
- ECE 601 - Home/School/Community Relationships with Young Children and Their Families
- SPE 623 - Curriculum and Methods in Early Childhood Special Education

Additional Required Courses - Credit Hours: 26

- ECE 725 - Inquiry in Early Childhood and Family Development
- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders

- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- OR**
- SPE 787 - Advanced Behavioral Analysis and Intervention
- SPE 671 - Clinical Practicum in Special Education
- SPE 779 - Application of Technology in Special Education
- SPE 782 - Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities
- SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab
- SFR 780 - Educational Research Methodology
- ECE 771 - Proposal Development
- ECE 762 - Seminar in Early Childhood and Family Development

Requirements for Special Education Majors - Credit Hours: 38

Mixed Credit Courses - Credit Hours: 12

- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders
- SPE 660 - Working with Families of Exceptional Individuals
- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- OR**
- SPE 787 - Advanced Behavioral Analysis and Intervention
- SPE 779 - Application of Technology in Special Education

Additional Required Courses - Credit Hours: 26

- 3 credits of CFD 600 - Issues in Child and Family Development
- CFD 663 - Administration of Programs for Children and Families
- CFD 705 - Growth and Development: Infancy through Early Childhood
- ECE 725 - Inquiry in Early Childhood and Family Development
- ECE 731 - Advanced Curriculum Development for Early Childhood Programs
- SPE 623 - Curriculum and Methods in Early Childhood Special Education
- SPE 671 - Clinical Practicum in Special Education
- SFR 780 - Educational Research Methodology
- ECE 771 - Proposal Development
- ECE 762 - Seminar in Early Childhood and Family Development

Research Requirement

The Master of Science in Early Childhood Special Education will require a seminar paper or thesis. The seminar paper can be a creative project, (e.g., curriculum development, program evaluation,) and the thesis will be a five chapter paper using original data. The seminar paper/thesis will be proposed in ECE 771 - Proposal Development and completed in ECE 762 - Seminar in Early Childhood and Family Development.

Field Experience

There are field experiences required in SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings and/or SPE 787 - Advanced Behavioral Analysis and Intervention, SPE 671 - Clinical Practicum in Special Education and SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted. Specific requirements for the comprehensive examination will be determined by the graduate faculty for the program.

Educational Administration, MEd

Program Admission Requirements

To be admitted into the program, a student must submit the following.

1. To be considered for probationary admission to the program, a student must submit both a Graduate Application and the Educational Administration program application.
2. Students must possess a bachelor's degree and must meet the requirements for admission to graduate study at Missouri State University.

Additional materials which must be submitted include:

- a. A written "Statement of Purpose" containing long-term goals of leadership (minimum of 300 words).
- b. A copy of appropriate teacher certificate or eligibility for certification by a state agency.
- c. Three references.
- d. An up-to-date professional resume
- e. A personal portfolio that may contain any of the following items to support application to the program:
 - Teaching
 - Show evidence of impacting student achievement in the classroom/building (using data to support impact)
 - Provide documentation of recent evaluations
 - Leadership
 - Continuous School/Building Improvement Plan or Model. List and explain leadership roles served in within the last 3 years in the building/district (i.e., supervised student teachers, chaired committees, and/or mentored new teachers/leaders)
 - Professional Development Plan
 - Show evidence that goals set forth in Professional Development Plan are being met.

Additional Admission requirements:

1. Earn a 3.50 GPA in the first 12 hours of Educational Administration coursework.
2. Schedule a personal interview with the Master's Degree Program Coordinator in Educational Administration.
3. Access to the internet and an active email address.

Upon completion of the probationary entry material (statement of purpose, teacher certification, immediate supervisor questionnaire, impact on learning material, leadership in Continuous Improvement Plan, Professional Development Plan, a 3.50 GPA for 12 hours, personal interview, and resume) the Educational Administration faculty will review the application of the candidate for full admission into the program.

1. Internship. Prior to beginning an internship, all students must:
 - a. have on file with the departmental office an internship application that has been completed and signed by the school administrator in the district where the internship is being conducted.
 - b. have completed the Family Care and Safety Registry background check.
 - c. have a TB skin test

Information regarding the completion of the background check and skin test may be obtained from the office of COE Student Services (417-836-5253).

2. Applicant's for whom English is a second language are required to submit scores on the Test of English as a Foreign Language (TOEFL). Minimum scores of 550 on the paper-based or a comparable score of 213 on the computer-based TOEFL are required for admission.

Degree Requirements

1. Satisfactory completion of a minimum of 36 approved graduate hours with a minimum overall GPA of 3.00.
2. No more than 12 semester hours of 600-level course work may be applied to the degree program.
3. Two years (minimum) of successful teaching experience.
4. **Research.** Three semester hours toward completion of the Leadership Capstone paper.
5. **Comprehensive Examination.** A time period for the examination will be scheduled during the last semester of the student's course work. The time and nature of the examination will be determined by the Advisory Committee.
6. Students will be required to present an acceptable Leadership Capstone project.
7. **Transfer Credit.** A maximum of 30% of the total hours may be accepted in as transfer credit toward a master's degree. All transfer credit must be "A" or "B" grade status from a regionally accredited college or university and must be approved by the program coordinator.

Master of Science in Education, Educational Administration (Elementary)

Program Description

Persons completing this option should acquire the necessary competencies to gain initial certification to serve as an elementary principal in Missouri schools. Even though a research component is required, emphasis is on the practical aspects of the elementary principalship. (All Educational Administration courses are taught through Missouri State Direct, live interactive technology.)

- EAD 751 - Foundations of Educational Leadership
- EAD 768 - K-12 Principalship
- EAD 780 - Administration of Instructional Programs
- EAD 781 - Organizational Management
- EAD 786 - School Supervision and Performance Enhancement
- EAD 788 - Action Research in Educational Leadership
- **OR**
- SFR 780 - Educational Research Methodology
- EAD 759 - Leadership Capstone
- EAD 787 - Administration of Special Programs
- EAD 790 - K-12 Principal Internship Onsite-Part 1
- EAD 791 - K-12 Principal Internship Onsite-Part 2
- EAD 784 - Multicultural Issues Involving Human Relations and Collaborative Processes
- EAD 785 - Legal and Ethical Contexts of Schooling
- **OR**
- EAD 792 - K-12 Principal Internship-Related Agencies
- **OR**
- EAD 793 - K-12 Principal Internship-Part 3 *
- EAD 769 - Curriculum Leadership for K-12 Principals

Total Credit Hours: 36

Master in Science in Education, Educational Administration (Secondary)

Program Description

Persons completing this option should acquire the necessary competencies to gain initial certification to serve as a secondary principal in Missouri schools. Even though a research component is required, emphasis is on the practical aspects of the secondary principalship. (All Educational Administration courses are taught through Missouri State Direct, live interactive technology.)

- EAD 751 - Foundations of Educational Leadership
- EAD 768 - K-12 Principalship
- EAD 780 - Administration of Instructional Programs
- EAD 781 - Organizational Management
- EAD 786 - School Supervision and Performance Enhancement
- EAD 788 - Action Research in Educational Leadership
- OR**
- SFR 780 - Educational Research Methodology
- EAD 759 - Leadership Capstone
- EAD 787 - Administration of Special Programs
- EAD 784 - Multicultural Issues Involving Human Relations and Collaborative Processes
- EAD 785 - Legal and Ethical Contexts of Schooling
- EAD 790 - K-12 Principal Internship Onsite-Part 1
- EAD 791 - K-12 Principal Internship Onsite-Part 2
- EAD 792 - K-12 Principal Internship-Related Agencies
- EAD 793 - K-12 Principal Internship-Part 3 *

- EAD 769 - Curriculum Leadership for K-12 Principals
- OR**
- SEC 701 - Secondary School Curriculum

Total Credit Hours: 36

Internship

*This internship course is designed for those students who have earned a masters degree in Educational Administration but do not have K-12 building level certification. This is a DESE required course.

Middle School certification is included with K-8 principal certification. The intern experience (EAD 790, 791 and 792) is an integral part of this major and should be planned for, with the advisor, in advance of the semester in which the student desires to register for the experience. A signed completed internship application is to be on file in the CLSE Department Office prior to enrolling in the class. Tb test and clearance through Family Registry is required prior to enrolling in EAD 790, EAD 792, EAD 793. Applications are available from CLSE and should be returned to CLSE.

Educational Technology, MSED

Program Description

This interdisciplinary program is designed to accommodate individuals with various areas of professional interest in the field of educational technology and instructional design. Candidates include those interested in becoming technology coaches, specialists, or technology coordinators; school library media specialists; classroom teachers who wish to improve their technology skills; and individuals from higher education, medical, corporate, or other professional fields.

English Proficiency Requirements for International Students

Proof of the proficiency in English is required if the primary language is not English. Op5.09-4 English Proficiency

Program Admission Requirements

To be admitted to the Educational Technology degree program, the student must apply through the GradCAS system and meet Graduate College Admission Requirements.

Accelerated Master's Degree Option - MEd Educational Technology

The MEd Educational Technology Accelerated Master's degree option provides exceptional Missouri State University undergraduate students the opportunity to enroll in a combined baccalaureate and master's degree program.

Eligible majors may apply for preliminary acceptance into the MEd Educational Technology Program after admission requirements for the Accelerated Master's option have been satisfied. Once accepted, students will be able to take up to 12 hours of graduate-level Educational Technology courses that apply to both their undergraduate and graduate programs. Before enrolling in courses to be counted for both undergraduate and graduate credit. An undergraduate student must be admitted into the Accelerated Master's Program and complete the Mixed Credit Form (which requires approval from the Educational Technology Program Coordinator, the Department Head of the Undergraduate Major/Minor and the Dean of the Graduate College). A student will be fully admitted to the Graduate College upon the completion of the requirements for the baccalaureate degree.

Admission Requirements:

Junior standing, with an overall GPA of 3.00.

Graduate Coursework in EDT Taken by Undergraduates and Accepted into the Accelerated Master's Option:

Other courses may be substituted with approval from EDT Program Director.

Students must complete the additional course requirements and number of required hours as listed in the MEd Educational Technology degree.

- EDT 665 - Selection and Utilization of Educational Technology
- EDT 662 - Educational Applications of Computers for Teaching
- EDT 660 - Digital-Age Learning Environments **AND**
- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
- OR**
- LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community
- OR**

- LTC 673 - Psychology of Global Literacies

Required Courses - Credit Hours: 33

Research Requirements - Credit Hours: 3

- EDT 797 - Research Methods for Educational Technology

Diversity Requirements - Credit Hours: 3

- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
OR
- LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community
OR
- LTC 673 - Psychology of Global Literacies

Required Educational Technology Courses - Credit Hours: 21

The degree program requires seven core Educational Technology courses. These courses provide a foundation of competencies considered valuable for all areas of professional interest in the field of educational technology.

- EDT 660 - Digital-Age Learning Environments
- EDT 665 - Selection and Utilization of Educational Technology
- EDT 761 - Online Teaching and Pedagogy
- EDT 763 - Administration of Educational Technology
- EDT 764 - Instructional Design
- EDT 765 - Educational Media Production
- EDT 766 - Trends and Practices in Educational Technology

Electives - Credit Hours: 6

Applicable technology courses in the College of Education.

- EDT 630 - Technology Systems Management and Maintenance
- EDT 645 - Building Blocks for Coding in an Educational Setting
- EDT 662 - Educational Applications of Computers for Teaching
- EDT 690 - Topical Issues in Educational Technology
- EDT 767 - Educational Technology Practicum
- EDT 777 - Problems in Educational Technology
- EDT 798 - Research Seminar in Educational Technology
- EDT 799 - Educational Technology Thesis

Note:

Other electives, including electives from outside the department, which coincide with the interests of the student, may be added at the discretion of the Program Director.

Comprehensive Examination

A Comprehensive Examination must be passed by the candidate before a degree will be granted. A description of the content and format of this examination is available from the Educational Technology Program Director.

XF Policy

High standards of professional conduct are required for admission to the Master of Science Program in Educational Technology (EDT) and the EDT Graduate Certificate Programs. A student assigned a grade of XF while studying toward completion of the EDT Master's or Graduate Certificate Programs will be removed from the program(s) at the end of that semester if the XF grade remains assigned after due process.

Elementary Education, MEd

Program Description

The graduate program in Elementary Education is designed primarily for practicing educators who desire to continue their professional growth toward master teacher with deeper knowledge and advanced skills in elementary teaching. With a curriculum focusing on theory, practice and content knowledge, candidates completing this degree are prepared for greater responsibility within their district, the role of mentor to colleagues and preservice teachers or pursuit of doctoral studies.

The program requires a minimum of 33 semester hours with 15 hours of required courses and 18 hours of elective courses. All required courses may be completed online; elective courses are offered in a combination of face to face or online. Students may apply their elective course hours towards earning a MSU Graduate Certificate in one of the following areas: Curriculum and Instruction, Gifted and Talented Education, Educational Technology, Elementary Mathematics Specialist, Environmental STEM for Teachers, Literacy, Student Mental Health, Family and Community Support, or TESOL. Or students may earn a graduate certificate in a different area that is approved by the Coordinator of the Elementary Education Graduate Program.

Successful completion of focus area coursework provides eligibility for an MSU Graduate Certificate. Graduate certificates may be earned independently or as part of the MEd in elementary education program. Students must formally apply for admission to a graduate certificate program separately from the admission to the MEd, Elementary Education program. The graduate certificate is awarded upon successful completion of course work in the focus area and the certificate will be placed in the official university transcript.

Program Admission Requirements

To be considered for admission to this program, a student must submit a Graduate Application and meet the following criteria.

- A. Students must possess a bachelor's degree and must meet the requirements for admission to graduate study.
- B. A minimum GPA of 3.00 for courses taken in the undergraduate area of study. Candidates who do not meet the GPA requirement must take the Graduate Record Examination (GRE) earning a minimum combined score of 290. Results from the GRE must be provided prior to the candidate's registering for more than nine hours.
- C. Applicants for whom English is a second language must meet the university requirements for admission as defined by International Services.
- D. A letter of intent describing the applicant's professional goals and teaching philosophy, future plans, background information, teaching experiences, and/or other related experiences with children.
- E. A copy of an appropriate teaching certificate or eligibility for teacher certification by a state agency should be submitted. Application without certification or eligibility may be accepted with permission from the Coordinator of the

Elementary Education Graduate Program or the Director of the School of Teaching, Learning and Developmental Sciences.

- F. One confidential letter of recommendation from a professional familiar with the candidate's academic abilities and teaching potential.
- G. A resume.

A candidate who does not meet all of the above criteria, but who demonstrates outstanding potential, may be fully admitted on the basis of individual merit and successful completion of the first nine hours (3.00 GPA or higher) by the Coordinator of the Elementary Education Graduate Program or the Director of the School of Teaching, Learning and Developmental Sciences.

Accelerated Master of Science in Education, Elementary Education

The MEd-ELE accelerated program master's option provides exceptional Missouri State University students the opportunity to enroll in graduate-level coursework as a baccalaureate candidate and earn up to 12 credits toward the Elementary Education master's degree program.

Eligible BSEd majors may apply for preliminary acceptance into the MEd-ELE program after admission requirements for the accelerated master's option have been satisfied. After acceptance into the Accelerated Master's in Elementary Education program, candidates must receive approval from the MEd-ELE Coordinator, TLDS Director and the Dean of the Graduate College before enrolling in a dual BSEd/MEd course. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule period for the course(s). A student will be fully admitted to the Graduate College upon completion of the requirements for the baccalaureate degree and all other Graduate College admission requirements. See the Graduate Catalog for further information.

Admission Requirements for the Accelerated Master's Degree in Elementary Education:

1. Junior or Senior standing with an overall GPA of 3.25 or higher
2. BSEd major in progress
3. Admitted to Teacher Education
4. Recommendation of a faculty member in teacher education
5. Resume
6. A letter of intent describing the applicant's professional goals and teaching philosophy, future plans, background information, teaching experiences, and/or other related experiences with children.

Students admitted to the Accelerated Master's option may take 12 hours from the following courses or a course in consultation with the MEd-ELE Coordinator/advisor:

- ELE 604 - Science Instruction in the Elementary School
- ELE 605 - The Reflective Practitioner
- ELE 722 - Differentiated Instruction for Early Childhood, Elementary, and Middle School
- ELE 725 - The Emerging Master Teacher
- PSY 703 - Human Growth and Development
- SPE 715 - Foundations in Special Education
- EDT 662 - Educational Applications of Computers for Teaching

Degree Requirements

1. Satisfactory completion of a minimum of 33 approved graduate hours with a minimum overall GPA of 3.00.
2. No more than 16 hours of 600-level course work may be applied to the graduate degree program.
3. **Comprehensive Examination.** A comprehensive examination or equivalent must be passed by the candidate before a degree will be granted.
4. **Research. Option I:** Satisfactory completion of one extensive paper or major creative work facilitated through the research seminar course.

Option II. Satisfactory completion of a thesis in the candidate's discipline. This credit shall be not more than 6 hours of the minimum 33 required for the degree.

5. **Transfer credit.** Students may transfer in no more than 9 credit hours which must be approved by the Graduate Program Coordinator.

Course Requirements

Courses may count only once in meeting the 33 hour program course requirements.

Required Core Courses - Credit Hours: 15-16

- ELE 711 - Contemporary Issues in Elementary Curriculum
- ELE 725 - The Emerging Master Teacher
- ELE 720 - Advanced Theory and Practice in Student Assessment and Evaluation
- ELE 770 - Action Research Proposal Development
- **OR**
- ELE 771 - Proposal Development **AND**
- SFR 780 - Educational Research Methodology
- ELE 772 - Research Seminar in Elementary Education
- **OR**
- ELE 799 - Thesis (Research Option II) **Credit Hours: 3 ***

Electives

Students in consultation with the Coordinator of the Elementary Education graduate program of advisor will select at least 18 credit hours of electives based on student interest.

Graduate Certificate in Elementary Curriculum and Instruction - select Credit Hours: 12

- ELE 710 - Elementary School Curriculum
- ELE 713 - Advanced Theory and Practice in the Teaching of Communication Arts
- ELE 714 - Advanced Theory and Practice in the Teaching of Social Studies
- ELE 715 - Advanced Theory and Practice in the Teaching of Mathematics
- ELE 716 - Advanced Theory and Practice in the Teaching of Science
- ELE 721 - Standards-Based Integrated Curriculum, Learning, and Teaching
- ELE 722 - Differentiated Instruction for Early Childhood, Elementary, and Middle School

Graduate Certificate in Elementary Mathematics Specialist (EMS) with Missouri DESE Certification - Credit Hours: 24

The Master of Science in Education, Elementary Mathematics Specialist is designed for practicing teachers (with at least 2 years of experience teaching elementary or middle school). This track is part of a statewide Mathematics specialist certification in collaboration with other Missouri universities. Elementary Mathematics Specialist (EMS) professionals can serve students and schools in a variety of ways including as classroom teachers, lead or mentor teachers, and school or district-based mathematics specialists.

Prerequisites - Credit Hours: 8

- MTH 750 - Number and Operations for Elementary Mathematics Specialists
- ELE 730 - Internship in Number and Operations
- MTH 752 - Rational Numbers and Proportional Thinking for Elementary Mathematics Specialists
- ELE 732 - Internship in Rational Numbers and Proportional Thinking

Required Courses - Credit Hours: 16

- MTH 754 - Algebraic Reasoning for Elementary Mathematics Specialist
- ELE 734 - Internship in Algebraic Reasoning
- MTH 760 - Geometry and Measurement for Elementary Mathematics Specialist
- ELE 738 - Internship in Geometry and Measurement
- MTH 758 - Data and Probability for Elementary Mathematics Specialist
- ELE 736 - Foundations of Mathematical Leadership I for Elementary Mathematics Specialists
- ELE 737 - Foundations of Mathematical Leadership II for Elementary Mathematics Specialists

Graduate Certificate in Environmental STEM for Teachers - Credit Hours: 12

Visit the Graduate Catalog for details about the Environmental STEM for Teachers Focus and Certificate Program in Elementary Education.

- EEM 616 - Nature Unfolds
- EEM 617 - Nature Unleashed
- EEM 618 - Project Wet, WILD, and Learning Tree
- EEM 619 - Nature Unhooked: Conserving Missouri's Aquatic Ecosystems

Graduate Certificate in Education of the Exceptionally Gifted-Talented Child - Credit Hours: 12*

- EEM 720 - Introduction to Learner Development and Differences in Gifted and Talented Education
 - EEM 721 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education I
 - EEM 722 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education II
 - EEM 723 - Learning Environments and Collaborations in Gifted and Talented Education
- *Also, completing the following courses will allow a student to earn Missouri DESE certification for Gifted and Talented Education.
- ELE 720 - Advanced Theory and Practice in Student Assessment and Evaluation
 - SFR 780 - Educational Research Methodology
- OR**
- ELE 770 - Action Research Proposal Development
 - EEM 796 - Problems in Education which is a Culminating Experience with Gifted Students (three semester hours to include both elementary and secondary settings)

Graduate Certificate in Educational Technology - Credit Hours: 12

Visit the Graduate Catalog for details about the Educational Technology Focus and Certificate Program in Elementary Education.

- EDT 660 - Digital-Age Learning Environments
- EDT 665 - Selection and Utilization of Educational Technology
- EDT 763 - Administration of Educational Technology

- EDT 764 - Instructional Design

Graduate Certificate in Literacy - select Credit Hours: 12

Visit the Graduate Catalog for details about the Literacy Focus and Certificate Program in Elementary Education.

- LTC 640 - Analysis and Correction of Difficulties in Literacy
- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
- LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community
- LTC 673 - Psychology of Global Literacies
- LTC 680 - Successful Classroom Communities to Enhance Student Learning
- LTC 685 - Techniques of Responsive Support in the Literacy Classroom
- LTC 700 - Relationship of Language to Literacy and Intellectual Development
- LTC 710 - Content Area Literacy
- LTC 740 - Issues and Trends in Literacy Education
- LTC 770 - Curriculum Design in Literacy
- LTC 780 - Assessment Procedures for the Literacy Specialist
- LTC 781 - Assessment of Literacy Problems (Must be taken concurrently with LTC 782)
- LTC 782 - Remediation of Literacy Problems (Must be taken concurrently with LTC 781)

Literacy, MSED

Program Description

The purpose of the MSED-Literacy degree is to furnish students with the necessary knowledge and skills to be competent teachers of literacy from preschool through college. Those completing the program will be qualified to work as reading interventionists, Title I Teachers, or Reading Recovery Teachers (additional training required). In addition, graduates may supervise reading/literacy programs and may qualify as literacy coaches. The MSED-Literacy degree includes coursework requirements for DESE K-12 Special Reading Teacher certification (note: DESE also required undergraduate coursework in special education, educational psychology, and literacy methods). A research component is required for completion of the degree.

Entrance Requirement

Admission to the program requires the following minimum criteria:

1. appropriate teacher certification or eligibility for certification by a state or national board; and
2. a minimum GPA of 3.00 for courses taken in undergraduate area of study. Candidates who do not meet the GPA requirement must take the Graduate Record Examination (GRE) earning a minimum combined score of 290. Results from the GRE must be provided prior to the candidate's registering for more than nine hours.
3. Applicants must also submit a letter of intent, which includes the candidate's teaching and professional goals, future plans, background, and teaching experience.

A candidate who does not meet all the above criteria, but who demonstrates outstanding potential, may be fully admitted with approval from the Literacy Program Director, School Director, College of Education Dean, and Graduate College Dean on the basis of individual merit and successful completion of the first nine hours (3.00 GPA or higher).

Student Program of Study Courses

The Graduate Program Director will meet with students upon admission to map out coursework designed to meet each individual student's needs.

Accelerated Master's Degree Option - MEd, Literacy

The MEd-Literacy accelerated master's degree option provides exceptional MSU undergraduate students the opportunity to enroll in a combined baccalaureate and master's degree program.

Eligible BEd majors may apply for preliminary acceptance into the MEd-Literacy program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take up to 12 hours of graduate-level literacy courses that apply to both their undergraduate and graduate programs. Before enrolling in courses for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and receive prior approval from the Literacy Program Director, the School Director, and the Dean of the Graduate College. This is done by using a mixed credit form. A student will be fully admitted to the Graduate College upon completion of the requirements for the baccalaureate degree, provided the student meets all other requirements for admission to the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Requirements for Accelerated Master's Option

1. Junior standing, with an overall GPA of 3.00
2. BEd major
3. Elementary, Early Childhood, and Special Education majors - completed or enrolled in: LTC 318 or LTC 420, and LTC 421
4. Middle School and Secondary majors - completed or enrolled in: LTC 474
5. Other BEd majors - contact the Graduate Literacy Program Director

Graduate Coursework in Literacy Taken by Undergraduates and Accepted into the Accelerated Master's Option:

LTC 700; LTC 640; LTC 660 or LTC 665 ; LTC 680; LTC 685. Other courses may be substituted with approval from Graduate Literacy Program Director.

Completion of MEd-Literacy Requirements:

Students must complete the additional course requirements and number of required hours as listed in the regular MEd-Literacy degree upon completion of the BEd degree.

Required Courses

- LTC 640 - Analysis and Correction of Difficulties in Literacy

- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
OR
- LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community

- LTC 680 - Successful Classroom Communities to Enhance Student Learning
- LTC 685 - Techniques of Responsive Support in the Literacy Classroom
- LTC 700 - Relationship of Language to Literacy and Intellectual Development
- LTC 710 - Content Area Literacy
- LTC 770 - Curriculum Design in Literacy
- LTC 780 - Assessment Procedures for the Literacy Specialist
- LTC 781 - Assessment of Literacy Problems
- LTC 782 - Remediation of Literacy Problems
- LTC 795 - Literary Research Methods *
- Literacy Elective - **3 Credit Hours**

Total Credit Hours: 36

* This requirement waived if candidate elects Research Option 1, a thesis.

Research Credit Hours: 3-6

Option I: Completion of a satisfactory thesis, LTC 799, in the candidate's discipline. This credit shall be no more than 6 hours of the minimum 39 required for the degree.

Option II: Completion of one research seminar, LTC 795, which shall require an extensive paper.

Comprehensive Examinations

A comprehensive examination must be passed by the candidate before a degree will be granted. A description of the content and format of this examination is available from the Coordinator of the Graduate Literacy Program.

Secondary Education: Family and Consumer Sciences Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Family and Consumer Sciences Requirements

A minimum of 3 hours of course work must be in Family and Consumer Sciences courses numbered 700 or above.

Family and Consumer Sciences **Credit Hours: 15**

Accelerated Master's Degree Option

Eligible undergraduate BSEd majors in Family and Consumer Sciences may apply for early admission to the Master of Science in Education in Family and Consumer Sciences. Once accepted for early admission, students will be able to take up to twelve (12) hours of professional education courses or Family and Consumer Sciences content courses at the 600- or 700-level that apply to both their undergraduate and graduate programs. Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program option AND receive prior approval from the Teaching, Learning and Developmental Sciences School Director, Family and Consumer Sciences MSED Program Coordinator and the Graduate College (on a Mixed Credit form). The student must complete their BSEd Family and Consumer Sciences program and receive Missouri certification in Family and Consumer Sciences (K-12) to continue in the MSED Family and Consumer Sciences program beyond the twelve (12) hours earned through the accelerated master's program option.

Accelerated Admission Requirements

1. Junior standing, with an overall GPA of 3.25.
2. Major in BSEd Family and Consumer Sciences.
3. Recommendation by a faculty member in the School of Teaching, Learning and Developmental Sciences.

Special Education, MSED

Program Description

The Master of Science in Education, Special Education may be obtained by following a course of study specific to multiple areas of interest and certification needs with six option areas, blindness and low vision (B&LV), mild/moderate disabilities (Special Education Alternative Certification {SEACT} track), orientation and mobility (O&M) comprehensive intervention specialist (CIS), autism spectrum disorders (ASD track), and education of the deaf and hard of hearing (EDHH) with each leading to a Master of Science in Education degree. Graduate Certificates in Autism Spectrum Disorders or Orientation and Mobility may be pursued as a component of a degree, or as options for non degree-seeking students. An accelerated Masters option is available in the option of autism spectrum disorders, or comprehensive intervention specialist for students seeking a BSEd, Special Education (Mild/Moderate Cross-Categorical K-12) degree. There is also an accelerated option for the education of the deaf and hard of hearing option. The Special Education Program is designed to include a mixture of on-line course delivery options, arranged supervised practica, and on-site methods. All course work in the area of Visual Impairment and some course work required for the SEACT program is available online. Alternative delivery systems such as intersession and week-end courses may also be offered to support completion of course work.

You must contact your advisor to obtain consent to enroll each semester.

Prerequisite Course Requirements

Bachelor degree from an accredited university.

Program Admissions Criteria - See EDHH Admission Criteria Below

To be admitted to the Master of Science in Education, Special Education degree program, a candidate must submit the Graduate Application and official transcripts showing all previous course work. The student must have obtained a GPA of 3.0 (on a 4.0 scale) for the last 60 hours of undergraduate course work

Additional materials which should be submitted:

1. a letter of intent clearly indicating the master's option area or certificate program to which they are applying.
2. three letters of recommendation, including one from the present employer, one from an individual who can attest to the candidate's academic ability, and a third letter from another professional reference. For students applying to the SEACT option of the special education master's program, the third professional reference letter should be from a person who can speak to the candidate's ability to interact with or teach children or students.

All applicants to the Graduate Program will be required to complete a MoVECHS background check (or other approved systems for out-of-state students) prior to admission. In addition, students enrolled in clinical and field experiences must provide proof of a negative TB skin test and proof of professional liability insurance. A TB skin test may be obtained at the university's Magers Health and Wellness Center. Applications for professional liability insurance are available in Hill Hall, Room 200 and must be current within one year of the field or clinical placement. The background check, professional liability insurance, and negative TB skin test will facilitate timely field experience placements necessary for the successful completion of program requirements.

Students seeking admission to the Special Education Program should contact the College of Education Professional Education Services Office (HILL 200) to complete the paper work for the required background check. A student must receive a satisfactory review on this MoVECHS report (as well as meeting all other admission requirements) in order to be admitted to the masters program.

The Special Education Program within the College of Education reserves the right to refuse enrollment or program continuation to any student based on the student's ability to successfully complete required classes and/or to successfully complete any required practica. This refusal will be determined by the judgment of the Special Education graduate faculty and the director of the School of Special Education, Leadership and Professional Studies.

All Special Education graduate students are expected to display professional behaviors and dispositions consistent with the International Council for Exceptional Children's Code of Ethics for Educators of Persons with Exceptionalities. Periodic structured assessments of professional behaviors and dispositions will be completed for all graduate students. If a student does not display the required professional behaviors and dispositions as determined by the Special Education graduate faculty and director of the School of Special Education, Leadership and Professional Studies, a student may be dismissed from the graduate program.

Program Requirements - 32-45 hours required

Core Requirements - Credit Hours: 9

- SFR 780 - Educational Research Methodology *
- **OR**
- SPE 794 - Research Methodology and Statistics in Educational Studies
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education
- SPE 788 - Research Seminar in Special Education
- **OR**
- SPE 799 - Thesis

Note:

* Offered via internet or alternative delivery system based on availability.

Comprehensive Examination

Degree candidates must pass a comprehensive exam. Students completing the thesis option will complete an oral defense of their thesis for their comprehensive exam. Other masters students will complete a written exam using a computer. Students who live in

another state who need to take the written comprehensive exam may be allowed to take the exam at an approved proctored site. Confer with faculty advisor regarding this option.

Accelerated Master's Degree Option (MSEd) - Comprehensive Intervention Specialist (CIS)

Students must be accepted into the accelerated program and receive approval from the Graduate Program Advisor, the Department Head of the Undergraduate program, and the Graduate College prior to enrolling in mixed credit courses. This is done by using a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period. See the Graduate College for further information.

Accelerated Option Admission Requirements

1. Junior standing, with an overall GPA of 3.00 or better
2. Admission to teacher education program
3. Completion of SPE 345 with a B or higher
4. Acceptance of the applicant by the CIS graduate faculty in special education under the accelerated masters option

Accelerated Option Mixed Credit Course Options

If accepted into the accelerated program, up to 12 hours of coursework may apply to both the undergraduate and graduate degrees, including, but not limited to:

- SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners
- SPE 617 - Direct Instruction in Reading and Language Arts
- SPE 660 - Working with Families of Exceptional Individuals
- SPE 779 - Application of Technology in Special Education

Comprehensive Intervention Specialist (CIS) Option

The Comprehensive Intervention Specialist (CIS) Graduate option is designed to provide candidates with in-depth knowledge and skills to effectively assess and implement research based programs for individuals requiring specialized supports and differentiated instruction within multi-tiered systems of support. The CIS option will provide educators with expertise in conducting on-going progress-monitoring of the academic and behavioral skill performance of PreK-12 students, development and planning of individualized multi-tiered systems of support using research-based practices appropriate for individual student needs, and implementation of multi-tiered systems of support on a school wide basis. The CIS option will also support professionals working in agency and clinical settings. Required courses in addition to the core as follows.

- SPE 617 - Direct Instruction in Reading and Language Arts
- SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners
- SPE 660 - Working with Families of Exceptional Individuals
- 3 credits of SPE 710 - Problems in Special Education
- SPE 779 - Application of Technology in Special Education
- SPE 784 - Advanced Procedures in Teaching Students with Mild to Moderate Disabilities
- SPE 787 - Advanced Behavioral Analysis and Intervention
- Electives **Credit Hours: 9**

Total Hours Required: 39

Students who have not completed an equivalent foundation requirement will also need to take SPE 715, Foundations in Special Education, to meet prerequisite requirements of advanced coursework in the degree program.

Blindness and Low Vision (B&LV) Option

The Blindness and Low Vision (B&LV) option is designed to provide intensive research based instruction in regard to assessment and programming for individuals identified with low vision or who are blind. Course work will emphasize Braille instruction as well as the use of varied technology options to support individuals with VI across multiple environments. Course work will be offered online to support broad delivery and is accredited by the Association for Education and Rehabilitation of the Blind and Visually Impaired (AER). Missouri Department of Elementary and Secondary Education Teacher Certification in Blind and Partially sighted may be obtained upon completion of the VI emphasis. Successful completion of the course work in the area of VI, along with additional course work as outlined, will in part address requirements for National certification and a Missouri State Graduate Certificate in Orientation and Mobility.

Required coursework in addition to the core follows.

- SPE 605 - Braille Reading and Writing I *
- SPE 606 - Principles of Orientation and Mobility *
- SPE 607 - Services and Diversity in Blindness and Low Vision and Additional Disabilities *
- SPE 608 - Low Vision, Anatomy and Physiology of the Eye *
- SPE 709 - Methods of Teaching Students with Visual Impairments and Multiple Disabilities *
- SPE 711 - Braille Reading and Writing II *
- SPE 730 - Health, Functional, and Psychosocial Aspects of Disability *
- SPE 733 - Methods of Teaching Independent Living Skills to Persons with Blindness or Low Vision *
- SPE 750 - Practicum in Blindness and Low Vision *
- SPE 779 - Application of Technology in Special Education *
- SPE 783 - Advanced Assessment to Support Individuals with Developmental and Sensory Disabilities *

Total BLV Course Hours 30

Total Program Hours - 30 BLV Courses + 9 Core Courses 39 hours

Note:

Additional course work may be required based on the candidate's previous qualifications and previous certifications.

* Offered via internet.

Special Education Alternative Certification Track Option

The Special Education Alternative Certification Track (SEACT) option is designed to facilitate Department of Elementary and Secondary Education Teacher Certification in K-12 Cross-Categorical Special Education (Mild to Moderate Disabilities) while acquiring advanced knowledge and skills in the area. Course work is designed to reflect State and National standards with demonstrated mastery of specific course competencies required through research-based projects. In addition to the Master of Science in Education, successful completion of this option will result in teacher certification in the area of K-12 Mild/Moderate Cross-Categorical Special Education (given that all required DESE content assessments are also passed). Required course work in addition to the core follows.

- SPE 715 - Foundations in Special Education

- SPE 782 - Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities
- SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab
- SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners
- SPE 621 - Methods II: Functional Living Skills and Health Issues
- SPE 789 - Supervised Teaching-The Exceptional Child
- PSY 703 - Human Growth and Development
- SPE 617 - Direct Instruction in Reading and Language Arts
- SPE 787 - Advanced Behavioral Analysis and Intervention
- SPE 664 - Language Development of Exceptional Students
- SPE 616 - Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings
- SPE 717 - Methods of Teaching Mathematics to Exceptional Individuals

Total Hours Required: 45

* Offered via internet or alternative delivery system based on availability.

Orientation and Mobility Option

The MSEd Option Program in Orientation and Mobility is available to individuals seeking a degree with emphasis in Orientation and Mobility. The Master's degree option in Orientation and Mobility (O&M) is designed to meet regional and national needs and is aligned to the standards set by the Association of Education and Rehabilitation of the Blind and Visually Impaired (AER) and Academy of Certification of Vision Rehabilitation and Education Professionals (ACVREP). The program prepares specialists who teach individuals who have blindness or low vision to travel independently, safely, and efficiently in their homes and communities. Individuals who desire to pursue a degree and subsequent certification in O&M will be identified based upon geographic need and individual qualifications. Prerequisites may be required based on transcript analysis.

Required course work in addition to the core follows.

Program Requirements

Required Course Work in Addition to the Core:

- SPE 605 - Braille Reading and Writing I *
- SPE 606 - Principles of Orientation and Mobility *
- SPE 607 - Services and Diversity in Blindness and Low Vision and Additional Disabilities *
- SPE 608 - Low Vision, Anatomy and Physiology of the Eye *
- SPE 712 - Instructional Techniques and Strategies of Orientation and Mobility
- SPE 714 - Professional Issues and Assessment in Orientation and Mobility with Diverse Populations *
- SPE 730 - Health, Functional, and Psychosocial Aspects of Disability
- SPE 760 - Internship-Orientation and Mobility

Total Hours Required: 32

* Offered via internet or alternative delivery system based on availability.

Autism Spectrum Disorders Option

The Autism Spectrum Disorders (ASD) option is designed for individuals who have teacher certification in an area of Mild/Moderate Disabilities who wish to enhance their skills through related and advanced course work in ASD. In-depth analysis of research-based practices specific to assessment, identification, and programming for students with ASD are stressed. Course work in addition to the core follows.

- SPE 783 - Advanced Assessment to Support Individuals with Developmental and Sensory Disabilities
- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders
- 4 credits of SPE 791 - Clinical Practicum for Individuals with Autism and Challenging Behavior
- SPE 627 - Research-Based Strategies for Individuals with ASD
- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- SPE 626 - Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders
- SPE 740 - Verbal Behavior
- Electives **Credit Hours: 6**

Total Hours Required: 37

* Offered via internet or alternative delivery system based on availability.

Accelerated Master's Degree Option (MSEd) - Special Education, Autism Spectrum Disorders Emphasis

Students must be accepted into the accelerated program and receive approval from the Graduate Program Advisor, the Department Head of the Undergraduate program, and the Graduate College prior to enrolling in mixed credit courses. This is done by using a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period. See the Graduate College for further information.

Accelerated Option Admission Requirements

1. Junior standing, with an overall GPA of 3.00 or better
2. Admission to teacher education program
3. Completion of SPE 515 with a B or higher
4. Acceptance of the applicant by the ASD graduate faculty in special education under the accelerated masters option

Accelerated Option Mixed Credit Course Options

If accepted into the accelerated program, up to 12 hours of coursework may apply to both the undergraduate and graduate degrees, including, but not limited to:

- SPE 617 - Direct Instruction in Reading and Language Arts *
- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners *
- SPE 621 - Methods II: Functional Living Skills and Health Issues *
- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders
- SPE 779 - Application of Technology in Special Education *

Note:

Courses marked with asterisk () would be designated as an elective for MSEd: SPE-ASD.

If accepted into the accelerated program, students may also request permission to enroll in the following courses as Senior Permission to facilitate completion of the master's degree for students who wish to stay at MSU to finish the MSED degree. Please note that Senior Permission courses are not eligible for Financial Aid.

Education of the Deaf and Hard of Hearing Option

The Master of Science in Education, Special Education, education of the deaf and hard of hearing (EDHH) is designed to prepare students to make intelligent decisions and take appropriate, thoughtful action. The program is organized to encourage students to use critical thinking and problem-solving to identify and meet the communication needs of individuals and families. The EDHH option is accredited by the Council on Education of the Deaf (CED).

The EDHH option contains three tracks. Students will work with their academic advisor to determine which track is best suited for their needs. Track one is designed to lead to teacher certification in the State of Missouri and national certification issued by the Council on Education of the Deaf. It is the track that most students will select. Within track one there is also an accelerated master's option available which provides an opportunity for undergraduate students to begin graduate course work during the senior year, and complete the program in three graduate semesters following coursework in the junior and senior years.

Track two results in a master's degree but does not lead to teacher certification in the State of Missouri or national certification issued by the Council on Education of the Deaf. Track three is designed for teachers who hold a bachelor's degree in special education and teacher certification in special education. Track three leads to teacher certification in the State of Missouri but not national certification issued by the Council on Education of the Deaf.

Admission Requirements - EDHH Option

Students applying to the MSED, Special Education, EDHH apply through Grad CAS. The application deadline for first consideration is February 15 to be considered for the following fall semester. Applications will continue to be accepted and reviewed after the first date of consideration.

Full admission to the program shall be based on the following components and application requirements/deadlines:

1. A student must have an undergraduate degree in communication sciences and disorders, education, or related area for track one and track two. Track three requires a bachelor's degree in special education and certification in special education.
2. The student must have a cumulative GPA of 3.00 or better (4.00 scale).

Additional Admission Requirements

The following components should also be submitted.

1. Two letters of recommendation, one primarily addressing academic performance in college and the other focused on work and/or community-based experiences. There may be overlap between the two recommendation letters.
2. Personal statement or cover letter which describes your intent and interest in pursuing a career in deaf education.

Essential Functions

The Essential Functions of Educators of the Deaf and Hard of Hearing establish the expectations and requisite abilities considered necessary for professionals in the field of education of the deaf and hard of hearing. Students in the MSU School of Special Education, Leadership and Professional Studies are to achieve the level of competency required for graduation and practice. It is recognized that degrees of ability vary widely among individuals. Admission candidates who feel they may not be able to acquire the essential functions set forth are encouraged to contact the School of Special Education, Leadership and Professional Studies. Any admission candidate who may require academic accommodations to fulfill the essential functions due

to a disability is encouraged to contact the Disability Resource Center at 417-836-4192 (voice) or 417-836-6792 (TTY). The School of Special Education, Leadership and Professional Studies at MSU seeks to ensure that qualified persons with disabilities are not denied admission or subject to discrimination in admissions. The Department is committed to enabling students by any reasonable means or accommodations to complete their course of study.

The following Essential Functions are consistent with the Council on the Education of the Deaf clinical skill performance guidelines and the Missouri Department of Elementary and Secondary Education guidelines expected of the first year speech-language therapists in public schools. All essential functions are introduced and coached within CLSE coursework and practicum.

Physical Abilities:

- Participate in professional responsibilities/activities for up to four-hour blocks of time with one or two breaks.
- Be self-sufficient when moving to, from and within the work setting.
- Complete diagnostic or instructional evaluation/assessment.
- Effectively implement necessary treatment plan/lesson plan. including use of materials/instrumentation and data collection.
- Provide a safe environment for others in responding quickly to emergency situations including fire, medical and environmental (e.g. weather related) emergencies and in applying universal precautions (standardized approach to infection control).
- Provide appropriate model of language and speech according to the needs of individual clients.
- Visually and auditorally monitor patient responses and materials.
- Make accurate judgments about speech and/or acoustic signals.

Behavioral and Social Attributes:

- Maintain composure and emotional objectivity in demanding situations.
- Communicate effectively and appropriately with people in person, by phone, and in written form by considering the communication needs and cultural values of the listener.
- Understand and respect supervisory authority.
- Maintain appropriate professional behavior, including punctuality, regular attendance and prompt completion of responsibilities.
- Comply with administrative, legal and regulatory policies in multiple clinical and educational settings.
- Demonstrate compassion, integrity and motivation in delivering professional services.
- Collaborate with peers and other professionals.

Intellectual Abilities:

- Solve clinical problems through critical analysis.
- Seek relevant case information, synthesize, and apply concepts and information from various sources and disciplines.
- Write discipline-specific papers and clinical reports in standard edited English at an appropriate level.
- Analyze, synthesize, interpret and retain ideas and concepts in academic and diagnostic/treatment/classroom settings.
- Maintain attention and concentration for sufficient time to complete clinical activities for up to eight hour blocks of time.

The Department is committed to enabling students by any reasonable means or accommodations to complete the course of study leading to the Master of Science in Education, Special Education, Education of the Deaf and Hard of Hearing.

Program Requirements

Non-Thesis Option: A minimum of 43 or 45 semester hours in Education of the Deaf and Hard of Hearing shall be completed, including the following:

1. Graduate course work to meet academic requirements for the Council on Education of the Deaf (CED).

2. Clinical practicum requirements for the Council on Education of the Deaf (CED) for track one. Clinical practicum requirements to meet Missouri's Department of Elementary and Secondary Deaf and Hard of Hearing teacher certification requirements for tracks one and three.
3. Completion of a master's project.
4. Comprehensive Examinations.

Thesis Option: A thesis option is not available to track three students. Requirements included in items 1 and 2 above shall pertain. Completion of the Master's Thesis and oral defense shall replace items 3 and 4 listed above.

Additional Program Requirements

1. Students must pay for and pass both a criminal background and drug test prior to their first clinical placement. EDHH students complete the MoVECHS background check. MoVECHS results are monitored by a College of Education representative. Additional background checks may be required by offsite placements and student teaching sites. There is an additional cost for TB skin tests, liability insurance, and DESE's Substitute Certificate.
2. EDHH students eligible for student teaching (CSD 796) will be placed in approved sites and in locations to be determined by the CLSE faculty.
3. Successfully complete the state approved exit assessments appropriate for the track.

Retention Requirements

1. To remain in the program, a student must maintain a GPA of 3.00.
2. No course with a grade below a "C" may be applied to the graduate degree.
3. The accumulation of more than 9 hours of "C" or below will result in dismissal from the program.
4. Students must progress satisfactorily through the levels of clinical practicum as defined in the Clinic Handbook.
5. Students must earn a B- or better for clinical hours in the following courses to be counted toward required clinical experiences: CSD 795 (9) and CSD 796 (8).
6. While grades are important, the student's continuation in the CLSE Program is based on the *composite picture* of the ability of the student to perform satisfactorily in the clinical phase of training as well as the academic components.

The CLSE Department reserves the right to refuse enrollment or program continuation to any student. This refusal will be determined by the judgment of the School of Special Education, Leadership and Professional Studies based upon the student's ability to successfully complete clinical practicum assignments or to assume patient care responsibilities and/or function as a clinician/teacher. Additionally, if a student has failed to demonstrate an attitude of professionalism as judged by the SELPS Graduate Faculty and School Director, a student may be dismissed from the program.

According to the Missouri State University Code of Student Rights and Responsibilities, the Council for Exceptional Children (CEC), and requirements of the SELPS, academic integrity and honesty are the foundation of the university community. Students are expected to practice academic and clinical integrity in all assigned work. Students are also expected to be honest in all interactions with other students, faculty, and staff, and be professional in attitude, actions and attire.

The university, and the School of Special Education, Leadership and Professional Studies, has the inherent right to promulgate appropriate rules and regulations for the orderly conduct of university business and the protection of the health and safety of the university community. Students are expected to comply with all published and stated rules and regulations. If a student is accused of violating any code (theft, academic dishonesty, possession of drugs, etc.) they will be subject to warnings, loss of privileges, probation, suspension and/or dismissal.

EDHH Certification Requirements

Contact your advisor or the School Director for the requirements and coursework necessary to meet state and national certification requirements. Students pursuing certification in Education of the Deaf and Hard of Hearing will be required to complete additional education coursework through the College of Education.

In order to be recommended for state certification, each student must:

1. Students must earn a B- or better for clinical hours in the following courses to be counted toward the required clinical experiences: CSD 795 and CSD 796.
2. Successfully complete the graduate degree in Communication Sciences and Disorders (Education of Deaf and Hard of Hearing option).
3. Successfully complete the appropriate state approved exit assessments for track one and three.
4. Complete all state certification requirements in effect at the time a recommendation is made for tracks one and three.

Total Hours Required: 43 or 45

EDHH MSED Curriculum - Track One (Traditional timeline)

Fall 1

- SPE 757 - Language Development: Deaf and Hard of Hearing I

Spring 1

- 3 credits of CSD 795 - Advanced Clinical Practice
- SPE 762 - Speech Development: Deaf and Hard of Hearing I
- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- CSD 795 - Advanced Clinical Practice **Credit Hours:** 1-6

Summer 1

- SPE 758 - Early Intervention Assessment: Deaf and Hard of Hearing
- SPE 759 - Early Intervention: Deaf and Hard of Hearing
- 2 credits of CSD 795 - Advanced Clinical Practice

Fall 2

- SPE 764 - Instructional Strategies: Deaf and Hard of Hearing
- SPE 765 - Reading: Deaf and Hard of Hearing
- 3 credits of CSD 795 - Advanced Clinical Practice
- CSD 784 - Non-Thesis Project
- **OR**
- CSD 799 - Masters Thesis
- SPE 766 - Counseling: Deaf and Hard of Hearing

Spring 2

- SPE 796 - Supervised Teaching
- CSD 784 - Non-Thesis Project
- **OR**
- 3 credits of CSD 799 - Masters Thesis

Accelerated Master of Science in Education, Special Education, Education of the Deaf and Hard of Hearing Additional Program Entrance Requirements

To be eligible to apply for admission to this program, the student must:

1. have junior standing and an overall GPA of 3.25 or better;
2. have completed general education requirements; and
3. have completed the following courses: SPE 310, SPE 311, CSD 312, CSD 360 and SPE 301 prior to applying to graduate school in the spring of their junior year.

After successful completion of the Bachelor of Science requirements, all students in the accelerated master's program will receive the BS and will be granted full admission to the graduate college.

EDHH MSED Curriculum - Track One (Accelerated timeline)

Junior Fall

- CSD 312 - Normal Language Acquisition **Credit Hours: 3** (also offered in fall & summer)
- CSD 321 - Conceptually Accurate Signed English I **Credit Hours: 3** (also offered in the spring)
- CSD 330 - Introduction to American Sign Language (ASL) **Credit Hours: 3**
- CSD 380 - Development, Diversity and Deafness **Credit Hours: 3**
- CSD 360 - Hearing Science **Credit Hours: 3**
- LTC 318 - Foundations of Reading Instruction **Credit Hours: 3**

Junior Spring

- CSD 322 - Conceptually Accurate Signed English II **Credit Hours: 3**
- CSD 331 - American Sign Language (ASL) II **Credit Hours: 3**
- CSD 370 - Audiology **Credit Hours: 3**
- CSD 562 - Psycho-Social Implications of Being Deaf and Hard of Hearing **Credit Hours: 3**
- CSD 572 - Aural Rehabilitation **Credit Hours: 3**

Senior Fall

- CSD 497 - Observation Clinical Practicum (MSU Preschool Program for D/HH) **Credit Hours: 3**
- SPE 757 - Language Development: Deaf and Hard of Hearing I
- EDC 345 - Introduction to Multicultural Education and Diversity **Credit Hours: 3**
- MTH 320 - Foundations of Mathematics for Teachers **Credit Hours: 3**

Senior Spring

- 3 credits of CSD 795 - Advanced Clinical Practice
- SPE 762 - Speech Development: Deaf and Hard of Hearing I
- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- CSD 795 - Advanced Clinical Practice **Credit Hours: 1-6**
- LTC 474 - Reading and Creative Writing in the Content Field **Credit Hours: 3**

Graduate Summer

- SPE 758 - Early Intervention Assessment: Deaf and Hard of Hearing
- SPE 759 - Early Intervention: Deaf and Hard of Hearing
- 2 credits of CSD 795 - Advanced Clinical Practice

Graduate Fall

- SPE 764 - Instructional Strategies: Deaf and Hard of Hearing
 - SPE 765 - Reading: Deaf and Hard of Hearing
 - 3 credits of CSD 795 - Advanced Clinical Practice
 - 3 credits of CSD 784 - Non-Thesis Project
- OR**
- 3 credits of CSD 799 - Masters Thesis
 - SPE 766 - Counseling: Deaf and Hard of Hearing

Graduate Spring

If accepted to the accelerated program, the following 12 hours of courses may apply to both the undergraduate and graduate degrees:

- SPE 796 - Supervised Teaching
 - CSD 784 - Non-Thesis Project
- OR**
- 3 credits of CSD 799 - Masters Thesis

Mixed Credit Course Options

If accepted to the accelerated program, the following 12 hours of courses may apply to both the undergraduate and graduate degrees:

- SPE 757 - Language Development: Deaf and Hard of Hearing I
- SPE 762 - Speech Development: Deaf and Hard of Hearing I
- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- CSD 795 - Advanced Clinical Practice

Note:

Before enrolling in a course to be counted toward both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate advisor, Department Head, and the Dean of the Graduate College using a Mixed Credit Form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the semester.

EDHH MSED Curriculum - Track Two. EDHH MSED Degree Only Without Teaching Certification Curriculum

Track two of the EDHH option is an alternative designed for students who wish to receive a masters degree, but **do NOT wish to pursue teacher certification** (primarily for international students). Track two will not lead to teacher certification in Deaf and Hard of Hearing. **Five of the graduate courses (14 hours) are online classes.**

Fall 1

- SPE 636 - Introduction to American Sign Language (ASL)
- SPE 757 - Language Development: Deaf and Hard of Hearing I
- CSD 685 - Development, Diversity, and Deafness
- CSD 497 Observation Clinical Practicum (MSU Preschool Program of D/HH)

Spring 1

- SPE 637 - Introduction to American Sign Language (ASL) II
- CSD 669 - Psycho-Social Implications of Being Deaf and Hard of Hearing
- SPE 762 - Speech Development: Deaf and Hard of Hearing I
- SPE 664 - Language Development of Exceptional Students

Summer 1

- SPE 758 - Early Intervention Assessment: Deaf and Hard of Hearing
- SPE 759 - Early Intervention: Deaf and Hard of Hearing

Fall 2

- SPE 764 - Instructional Strategies: Deaf and Hard of Hearing
- SPE 765 - Reading: Deaf and Hard of Hearing
- CSD 784 - Non-Thesis Project
OR
- 3 credits of CSD 799 - Masters Thesis
- SPE 766 - Counseling: Deaf and Hard of Hearing
OR
- SPE 660 - Working with Families of Exceptional Individuals

Spring 2

- 3 credits of CSD 795 - Advanced Clinical Practice
- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- CSD 795 - Advanced Clinical Practice **Credit Hours: 1-6**
- 3 credits of CSD 784 - Non-Thesis Project
OR
- 3 credits of CSD 799 - Masters Thesis

EDHH MSED Curriculum - Track Three

Track three of the EDHH option is for special education teachers who wish to receive a masters degree and State of Missouri teaching certification in Deaf and Hard of Hearing. Track three does not meet the practicum requirements for national certification by the Council on Education of the Deaf (CED).

Fall 1

- SPE 757 - Language Development: Deaf and Hard of Hearing I
- SPE 765 - Reading: Deaf and Hard of Hearing

Spring 1

- SPE 630 - Conceptually Accurate Signed English I
- SPE 762 - Speech Development: Deaf and Hard of Hearing I

Summer 1

- SPE 631 - Conceptually Accurate Signed English II
- SPE 759 - Early Intervention: Deaf and Hard of Hearing

Fall 2

- SPE 766 - Counseling: Deaf and Hard of Hearing
- CSD 764 - Instructional Strategies: Deaf and Hard of Hearing **Credit Hours: 3**

Spring 2

- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- 3 credits of CSD 784 - Non-Thesis Project
- CSD 795 - Advanced Clinical Practice

Summer 2

- SPE 759 - Early Intervention: Deaf and Hard of Hearing
- CSD 784 - Non-Thesis Project
- 2 credits of CSD 795 - Advanced Clinical Practice

Student Affairs in Higher Education, MS

NOTE - APPLICATIONS ARE NOT BEING ACCEPTED AT THIS TIME

Program description

The Student Affairs program has been developed at Missouri State to meet the staffing needs of colleges and universities throughout the nation. Our goal is the development of individuals to successfully enter the field of student affairs administration in higher education. Individuals who participate in this program will have both a theoretical understanding of the history and

traditions of higher education, and the practical experience needed to address current issues which face campuses in the 21st Century.

Program admission requirements

In addition to the Graduate College admission requirements, the Student Affairs in Higher Education (SAHE) MS program requires the following:

- A grade point average of at least 2.75 on a 4.00 scale, OR at least a 2.75 grade point average on a 4.00 scale for the last 60 hours of academic course work.

Prospective students who intend to pursue full-time graduate study in the SAHE program are required to obtain a graduate assistantship. A grade point average of at least 3.00 on a 4.00 scale, OR at least a 3.00 grade point average on a 4.00 scale for the last 60 hours of academic coursework is required.

Applicants for whom English is a second language are required to submit scores on the Test of English as a Foreign Language (TOEFL). Minimum scores of 550 on the paper-based or a comparable score of 213 on the computer-based TOEFL are required for admission.

Required Application Materials

To apply to the SAHE program, the following materials must be submitted via GradCAS:

- Application to MSU's SAHE program, including application fee.
- Official transcripts from all previously attended institutions of higher education.
 - Missouri State University undergraduates do not need to request official transcripts.
- Statement of purpose
 - Your written personal statement (minimum of 300 words) should describe your professional and/or personal goals, discuss how the degree will contribute to those goals, and indicate the experiences that have prepared you for graduate study in student affairs.
- Resume or curriculum vita (CV)
- Three letters of recommendation
 - These letter should be written by individuals familiar with your academic abilities and professional potential.

Applicants for whom English is a second language are required to submit scores on the Test of English as a Foreign

Standards

The program follows the Council for Advancement of Academic Standards in Higher Education (CAS) and meets the College Student Educators International (ACPA) and Student Affairs in Higher Education (NASPA) respectively Professional Preparation Commission and the Graduate Program Directory.

Degree requirements:

1. Satisfactory completion of a minimum of 45 approved graduate hours with a minimum overall GPA of 3.00.
2. No more than 9 semester hours of 600-level course work may be applied to the degree program as approved by the program director.
3. **Qualification Exam and the E-Portfolio Project** is the two part **Comprehensive Examination** for SAHE program. Students will complete Qualification Exam/E-Portfolio in SAE 771, Capstone Seminar. Students will begin the E-Portfolio during the first semester of the program.
4. **Research.** Successful completion of SAE 729, SAE 766 and SAE 767 .

5. **Transfer Credit.** A maximum of 30% of the total hours may be accepted in as transfer credit toward a master's degree. All transfer credit must be "A" or "B" grade status from a regionally accredited college or university and must be approved by the program director.

Graduate assistantships:

There is a strong possibility that candidates admitted into the student affairs program by February 1 will be offered employment as a graduate assistant within the Division of Student Affairs. Students admitted by this date with at least a 3.00 GPA will receive priority consideration. Students admitted to the student affairs program should have either a graduate assistantship or a full-time employment position with Missouri State University or a local post-secondary educational institution.

Required courses:

- SAE 721 - Introduction to Student Affairs
- SAE 723 - Student Development Theory
- SAE 726 - Higher Education in the United States
- SAE 727 - Inclusive Campus Environment
- SAE 728 - Individual and Group Support Skills
- SAE 729 - Foundations of Research
- SAE 732 - Leadership and Administration in Higher Education
- SAE 735 - Governance and Finance in Higher Education
- SAE 738 - Legal and Ethical Issues in Student Affairs

- SAE 747 - Supervised Practice
- **OR**
- SAE 748 - Special Projects: Reflective Moments in Higher Education and Student Affairs *Full time employees at Missouri State University or area institutions may substitute this class to meet their Supervised Practice requirement for their degree.

- SAE 749 - Student Outcomes
- SAE 766 - Research Methods and Data Analysis
- SAE 767 - Assessment and Evaluation
- SAE 771 - Capstone Seminar

Teaching and Learning, MATL

Program Description

The Master of Arts in Teaching and Learning (MATL) degree engages practicing teachers in serious, sustained, and quality discussions about teaching, learning, and the public schools. The degree is based on what teachers want: ideas, tools, strategies, knowledge, and understandings that make them better at what they do; space to work on their craft individually; and, opportunities to talk with colleagues about what is really important in their particular classrooms, schools, and communities. Please note: The MATL degree does not prepare (or certify) teachers to work as building principals.

The bulk of this degree (18 credit hours) is delivered on-site in a two-year cohort model. Teachers enrolled in this degree will meet with teacher colleagues enrolled in the Specialist in Education, Teacher Leadership (SETL) degree. Cohorts will identify common needs or concerns, deepen collaboration, and strengthen supportive collegial relationships. Degrees feature an inquiry project-based approach via an action research framework.

Each student will choose an emphasis or elective area (12 credit hours-with a wide range of options) and will have direct sustained involvement with MSU Education faculty.

Some MATL students go on to take our Specialist in Education, Teacher Leadership degree. There is an Accelerated Pathway for such students. See a description of this pathway in the Graduate Catalog, under Specialist in Education, Teacher Leadership.

Program Entrance Requirements

To be admitted to the degree program, the student must complete the application process through the Grad CAS system and submit all official college transcripts as well as a written statement including reasons for pursuing the program, including desired professional goals.

Degree Requirements

Course Requirements - Credit Hours: 33

Courses may count only once in meeting the 33 hours program course requirements.

Required Professional Learning Community Courses - Credit Hours: 18 (No transfer courses allowed)

First Year (On-Site, cohort based) - Credit Hours: 10

- EDC 700 - Teaching and Learning I: Current Issues and Trends in Education
- EDC 701 - Teaching and Learning II: Diversity, Curriculum and Research

Second Year (On-Site, cohort based) - Credit Hours: 8

- EDC 702 - Teaching and Learning III: Management and Assessment of Learning
- EDC 703 - Teaching and Learning IV: Curriculum Development

Additional Required Course - Credit Hours: 3

- EDC 704 - Teaching and Learning V: Research Seminar

Emphasis/Elective Area - Credit Hours: 12

Students will work with the Program Coordinator to choose an Emphasis Area or series of elective courses totaling 12 credit hours.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted. The major advisor is primarily responsible for working with faculty members to develop and evaluate the comprehensive examination.

Teaching, MAT

Program Description

The Master of Arts in Teaching (MAT) program is a combined graduate degree and initial teacher certification program intended for individuals who hold at least a baccalaureate degree from an accredited college/university. The MAT is a teacher certification program approved by the Missouri Department of Elementary and Secondary Education (DESE) and is intended for secondary-level and middle-level future educators. The MAT program provides the opportunity for multiple content area certifications and includes extensive site-based clinical experiences in area schools building upon the candidates' previous coursework and experiences.

Entrance Requirements

1. Applicants must meet minimum Graduate College requirements for admission.
2. Applicants must hold at least a bachelor's degree or higher degree from a regionally accredited institution.
3. Admission to the MAT will include a departmental review, and a transcript analysis completed by the Professional Education Services office.

Degree Requirements Minimum Credit Hours: 36

1. All candidates must attempt the Missouri Content Assessment(s) (MoCA) before the end of their first semester of coursework.
 2. All candidates must pass the MoCA(s) prior to their student teaching semester.
 3. A "B" or better is required in all coursework.
 4. Completion of Missouri Volunteer and Employee Criminal History Service (MOVECHS) waiver and FBI Fingerprinting Background Check prior to starting the second semester of MAT graduate courses. For more information, refer to Compliance Documents Required for Practicum, Internship or Student Teaching, found on the Professional Education Services website.
- SFR 750 - Sociocultural Foundations of Education
OR
 - MID 810 - Foundations of Middle Level Education
 - SFR 751 - Introduction to Teaching and Learning
OR
 - MID 725 - Advanced Theory and Practice in the Teaching of Early Adolescents
 - SFR 781 - Applied Educational Research
 - EDT 662 - Educational Applications of Computers for Teaching
OR
 - EDT 665 - Selection and Utilization of Educational Technology
OR
 - SCI 662 - Teaching Science Using Technology in the Classroom and Laboratory
-
- PSY 710 - Psychology of Education
 - SPE 715 - Foundations in Special Education
 - LTC 710 - Content Area Literacy
-
- LTC 624 - Analysis and Correction of Difficulties in Adolescent Literacy
OR
 - LTC 640 - Analysis and Correction of Difficulties in Literacy
-
- SEC 783 - Internship in Teaching I

OR

- SCI 783 - Internship in Teaching Secondary Science I
- SEC 784 - Internship in Teaching II

OR

- SCI 784 - Internship in Teaching Secondary Science II

Note:

Candidates seeking secondary science (9-12) content certification may choose an alternative science research course in consultation with their academic advisor.

Advisement

Advisement will be facilitated by the MAT Academic Advisor in cooperation with the MAT Program Director. The Office of Professional Education Services will monitor the certification process. Content area requirements are determined by the Professional Education Services office as part of the transcript analysis process.

Research and Comprehensive Examination requirements

Candidates will enroll in SFR 781 - Applied Educational Research, which will provide instruction on how to utilize and implement educational research to enhance their classroom practice. This course will introduce candidates to action research and culminate in a research project presented to the Program Director during their student teaching semester. This project will satisfy their comprehensive examination requirement.

Graduation Requirements

In addition to requirements established by the Graduate College, MAT candidates are required to:

1. Complete all MAT-required coursework with a "B" grade or higher.
2. Meet GPA requirements established by Missouri's Department of Elementary and Secondary Education (DESE) for educators.
3. Complete all research and comprehensive examination requirements (both satisfied through successful completion of SFR 781)..

Certification Requirements

To be recommended for teacher certification, MAT candidates are required to:

1. Meet all Missouri teacher certification requirements, which are in effect at the time of certification.
2. Complete all Professional Education and content courses with a combined (Missouri State and transfer) GPA of 3.00 or higher.
3. Pass the Missouri Content Assessment (MoCA).
4. Pass the Missouri Educator Evaluation System (MEES) during student teaching.

Specialist Programs**Educational Administration-Superintendent, EdS**

Program Admission Requirements

To be admitted into the program, a student must submit the following.

1. To be considered for probationary admission to this program, a student must submit both a Graduate Application and Educational Administration program application.
2. Students must possess a master's degree from an accredited institution with an overall GPA of 3.50.
3. Applicants for whom English is a second language are required to submit scores on the Test of English as a Foreign Language (TOEFL). Minimum scores of 550 on the paper-based or a comparable score of 213 on the computer-based TOEFL are required for admission.
4. Additional materials which should be submitted.
 - a. A written "Statement of Purpose" containing long-term goals of leadership (minimum 300 words).
 - b. A copy of an appropriate teacher certificate or eligibility for certification by a state agency.
 - c. Program will request a reference from immediate supervisor regarding performance.
 - d. Candidate will submit a personal portfolio that may contain any of the following items to support their application to the program:
 - Building Student Outcomes
 - Show evidence of impacting student achievement at the building level as evidenced by the School/Building Improvement Plan Data.
 - School Leadership
 - Provide evidence of leadership roles involved in that last 3 years at the district level.
 - Professional Development Plan
 - Show evidence that goals set forth in Professional Development Plan are being met.
 - List leadership conferences (regional, state, national) attended or presented at during the last 3 years.
 - e. Access to the internet and an active email address.
 - f. Submit a professional resume.
 - g. Complete a structured interview with the Educational Administration Program Faculty.
5. Upon completion of the probationary entry material (statement of purpose, teacher certification, immediate supervisor questionnaire, impact on learning material, leadership and involvement in the continuous School/Building Improvement Plan, Professional Development Plan, 3.50 GPA for 12 hours, personal interview with the department, Family Care and Safety Registry, TB skin test, and resume) the Educational Administration faculty will review application for full admission into the program.
6. Internship. Prior to beginning an internship, all students must:
 - have on file with the departmental office an internship application that has been completed and signed by the school administrator in the district where the internship is being conducted.
 - have completed the Family Care and Safety Registry background check.
 - have a TB skin test

Information regarding the completion of the background check and skin test may be obtained from the office of COE Student Services (417-836-5253).

Degree requirements

1. Satisfactory completion of a minimum of 33 approved graduate hours with a minimum overall GPA of 3.00.
2. A minimum of three years supervisory and/or teaching experience.
3. Research. A minimum of three semester hours field study assignment.
4. Comprehensive Examination. A period of time will be scheduled for a comprehensive exam for all students who have not previously passed a comprehensive examination in educational administration at Missouri State University. In addition, students will be required to present an acceptable oral review of their field study.

5. Transfer Credit. A maximum of 8-9 semester hours of graduate credit beyond the master's degree may be accepted toward the hours required for the Specialist in Education Degree. All transfer credit must be "A" or "B" grade status from a regionally accredited college or university and must be approved by the program coordinator.

Program Description

The Educational Administration-Superintendent program is a 33 credit hours program and fulfills the standards established by the Missouri Department of Elementary and Secondary Education for superintendency. Practical aspects of the superintendency are emphasized. A research component (6 hrs) and a comprehensive examination are required.

Required Coursework - Credit Hours: 27

- EAD 850 - Politics of Education
- EAD 858 - School Personnel
- EAD 862 - The Superintendency
- EAD 863 - Curriculum Design and Evaluation
- EAD 864 - Diversity and Community Relations
- EAD 865 - School Law
- EAD 866 - Public School Finance
- EAD 867 - School Plant Planning and Maintenance
- EAD 882 - Superintendency Internship-Part 1
- EAD 883 - Superintendency Internship-Part 2
- EAD 886 - Superintendency Internship-Part 3

Research Sequence - Credit Hours: 6

- EAD 895 - Research in Administrative Practice
- OR
- SFR 890 - Field Research and Evaluation
- EAD 860 - Field Study

Required 800-level courses

Students earning the Educational Administration-Superintendent, EdS degree are prepared for career certification by DESE as an superintendent if they have earned a masters degree in educational administration or have successfully completed the following educational administration courses as required by the Missouri Department of Elementary and Secondary Education for building level certificate:

- Foundations of Educational Administration **Credit Hours: 3**
- K-12 Principalship **Credit Hours: 3**
- K-12 Principalship Internship Onsite - Part 1 **Credit Hours: 1**
- K-12 Principalship Internship Onsite - Part 2 **Credit Hours: 1**
- K-12 Principalship Internship Onsite - Related Agencies **Credit Hours: 1**
- K-12 Principalship Internship - Part 3* **Credit Hours: 1**
- Human Relations and Collaborative Processes** **Credit Hours: 3**
- Legal and Ethical Contexts of Schooling **Credit Hours: 3**
- Supervision and Performance Enhancement **Credit Hours: 3**

- K-12 Curriculum for Building Level Principals **Credit Hours: 3**
- Organizational Management **Credit Hours: 3**
- Administration of Special Programs **Credit Hours: 3**

Students must pass the required state assessments for building level principal prior to receiving certification.

Students must pass the required state assessment for superintendent prior to receiving certification.

All Educational Administration courses are taught using Missouri State Direct, or live interactive technology.

*Graduate students who have earned a masters degree in Educational Administration but do not have K-12 building level certification, as required by DESE, will take this course.

**This is a required DESE course for certification that is part of the EAD program already.

Special Education and Assessment, EdS

Program Description

The Specialist in Education: Special Education and Assessment degree is designed to provide the graduate with the qualifications necessary to complete educational testing to provide diagnostic and intervention services for students with special needs in K-12 settings. Candidates enter with a Masters degree in Special Education, Counseling, School Counseling, Counseling Psychology, Clinical Psychology, Educational Psychology, Education or related degree and complete 33 additional credit hours of graduate coursework in Counseling, Psychology, and Special Education; 21 of which must be completed post-Master's and within 8 years of degree completion. Students earning the EdS degree are prepared for certification by Missouri Department of Elementary and Secondary Education (DESE) as a School Psychological Examiner.

Admission Requirements

Admission requires:

1. Completed Graduate College Application in the Grad CAS system.
2. Submission of official transcripts showing all previous college course work.
3. Master's degree in Special Education, Counseling, School Counseling, Counseling Psychology, Clinical Psychology, Educational Psychology or Education with an overall GPA of 3.00 or higher.
4. State Department of Education (PreK-12) initial certification in a teaching field OR school counseling certification.
5. Supporting documents:
 - Letter of interest (addressing why you want to pursue this degree).
 - EDS application via Grad CAS
 - Current official transcripts
 - Three official letters of recommendation (preferably from faculty familiar with the candidate's academic work and at least one from an employer)
6. The priority deadlines for receipt of all application materials (includes application, transcripts and references) for admission in the Summer semester is March 1, to Fall semester is April 1 and for Spring semester is October 1 of the preceding year.

Prerequisite Requirements

1. State Department of Education PreK-12 initial certification in a teaching field or school counselor certification; and

2. Prior completion of a course in Introduction to Special Education or Psychology of the Exceptional Child with a grade of "C" or higher (undergraduate or graduate accepted). {If this is not met, SPE 715 Foundations in Special Education, will be required}

Degree Requirements

Total credit hours required for graduation is 33. At least 21 of the hours must be completed at Missouri State University, and at least 21 credit hours must be completed post-Master's degree within 8 years of degree completion.

- PSY 703 - Human Growth and Development
OR
- COU 707 - Human Growth and Development
- PSY 710 - Psychology of Education
- PSY 720 - Individual Intelligence Testing
- SPE 794 - Research Methodology and Statistics in Educational Studies
OR
- SPE 850 - Introduction to Statistics
OR
- PSY 629 - Psychological Tests and Measurements

- COU 701 - Assessment and Testing for Counselors
- SPE 616 - Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education
- SPE 782 - Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities
- SPE 787 - Advanced Behavioral Analysis and Intervention
- SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab
- SPE 886 - School Psychological Examiner Practicum

Note:

For students accepted into the EdS program with a Masters degree from another institution that did not require either a substantial seminar paper or thesis, a writing/research project in lieu of seminar/thesis or completion of SPE 788, Seminar, will be required to be completed prior to graduation. This project will be completed with the assistance and guidance of the EdS program coordinator or through completion of SPE 788. Further, the EdS program coordinator will evaluate transcripts for each incoming EdS student and may specify further prerequisite coursework, as needed.

Comprehensive Examination and Research Requirement

Students will complete a comprehensive examination upon completion of the Specialist Core. Students will be required to have completed a thesis or seminar project in their Master's degree. For those not meeting this requirement, a completion of a thesis/seminar equivalent project or completion of SPE 788 will be required prior to completion of the EdS degree.

Teacher Leadership, EdS

Program Description

The Specialist in Education, Teacher Leadership (SETL) degree is designed for teachers who desire to take on leading roles in making decisions in their schools and school districts, in and out of the classroom-teachers who prove themselves to be excellent teachers, committed professionals, and supportive colleagues. The degree is for students who possess a Master's degree in an education-related field-for example, a Master's degree in literacy or educational technology, or a Master's degree in a subject or grade-level field. This degree helps individual teachers improve their teaching while also challenging and deepening their commitments and understandings. The degree is intended for teachers who want to stay in the classroom, want to become a source teacher (or "coach"), or want to become a curriculum specialist. Please note: This Specialist in Education, Teacher Leadership (SETL) degree does not prepare (or certify) teachers to work as a building principal.

The bulk of this degree (18 credit hours) is delivered on-site in a two-year cohort model. Teachers enrolled in this degree will meet with teacher colleagues enrolled in the Master of Teaching and Learning (MATL) degree. Cohorts will identify common needs or concerns, deepen collaboration, and strengthen supportive collegial relationships. Degrees feature an inquiry project-based approach via an action research framework. Each student will choose an emphasis or elective area (12 credit hours-with a wide range of options) and will have direct sustained involvement with MSU Education faculty. Some credit hours from a previous master's degree may count toward this emphasis or elective area, pending approval by the Program Coordinator and Graduate College.

Some MATL students go on to take our Specialist in Education, Teacher Leadership degree. There is an Accelerated Pathway for such students. See a description of this pathway in the Graduate Catalog, under Specialist in Education, Teacher Leadership.

Program Entrance Requirements

To be admitted to the degree program, the student must complete the application through the Grad CAS system and submit all official college transcripts as well as a written personal statement including reasons for pursuing the program, including desired professional goals. The student must meet Graduate College Admission requirements.

Degree Requirements

Course Requirements Credit Hours: 36

Required Professional Learning Community Courses - 18 Hours (No transfer courses allowed)

First Year (On-Site, cohort based) - Credit Hours: 10

- EDC 800 - Teacher Leadership I: Contemporary Educational Problems
- EDC 801 - Teacher Leadership II: Diversity and Curricular Design

Second Year (On-Site, cohort based) - Credit Hours: 8

- EDC 802 - Teacher Leadership III: Building Classroom Climate and Effective Student Assessments
- EDC 803 - Teacher Leadership IV: Curriculum Theory

Administrative Leadership Area Course - Credit Hours: 3

- EAD 751 - Foundations of Educational Leadership

Additional Required Course - Credit Hours: 3

- SFR 890 - Field Research and Evaluation

Emphasis/Elective Area - Credit Hours: 12

Students will work with the Program Coordinator to choose an Emphasis Area or series of elective courses totaling 12 credit hours.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted. The major advisor is primarily responsible for working with faculty members to develop and evaluate the comprehensive examination.

Accelerated Pathway

Students may take an "Accelerated Pathway" to obtain the Specialist in Education, Teacher Leadership (SETL) degree. Students can acquire **both** a Master of Arts in Teaching and Learning (MATL) **and** the Specialist in Education, Teacher Leadership (SETL) degree in an accelerated program. Students interested in this Accelerated Pathway should contact the Program Coordinator to make sure they qualify and take the right courses. Students in the Accelerated Pathway can count up to nine (9) credit hours taken as part of the MATL degree from within the "Emphasis/Elective Area" toward the Specialist degree's "Emphasis/Elective Area" credit hour requirements. Please note: This Accelerated Pathway to the SETL degree does not prepare (or certify) teachers to work as a building principal.

To be considered for the Accelerated Pathway, students must have a minimum GPA of 3.50 in at least 16 credit hours of graduate level coursework in an education-related field. Students will be officially admitted to the SETL degree only upon their completion of the MATL degree. All other requirements for admission to the SETL degree, as described above, must also be met.

Total credit hours required for the Accelerated Pathway to the SETL degree is 60 hours.

Students who have previously completed the MATL degree - and who later decide they want the SETL degree - must apply for the SETL degree.

Doctoral Programs

Leadership, Learning, and Educational Change, EdD

Program description

The Doctor of Education in Leadership, Learning, and Educational Change is an interdisciplinary doctoral program designed to develop educators who aspire to assume leadership roles within educational organizations and have a positive impact on the education system. Using a cohort-based model, students will take core courses in a designated sequence, participate in Leader/Scholar communities, choose an individualized specialty area, and complete a dissertation study. The program's flexibility allows students to tailor their coursework to their individual interests, ensuring that they can specialize in areas that align with their career aspirations.

Admission requirements

1. Master's degree from an accredited college or university, including a cumulative GPA of 3.00 on a 4.00 scale in graduate work.

2. Students must submit a cover letter.
3. Three Recommendations from individuals in education related field.
4. Students must complete an interview that will include a performance activity.

Degree requirements: Total credits: 55-65

The Doctor of Education in Leadership, Learning, and Education Change includes a core curriculum of 25 credit hours, with an additional 12 credit hours of dissertation and 18-28 credit hours in a specialized area of interest.¹

Core curriculum - 25 hours

- EDU 900 - Introduction to Doctoral Studies
- EDU 910 - Critical Perspectives in Education: Challenges and Opportunities
- EDU 915 - History and Philosophy of Education
- EDU 920 - Education Policy: Impact on Teachers, Students, and Local Communities
- EDU 925 - Leadership and Organizational Change

- EDU 927 - Transformative Learning
OR
- EDU 929 - Curriculum Change and Innovation

- EDU 950 - Educational Research
- EDU 952 - Qualitative Methods
- EDU 954 - Educational Statistics

Dissertation- 12 hours

- 4 hours of EDU 956 - Leader Scholar Communities (LSCs)
- 8 hours of EDU 998 - Dissertation Hours

Specialized Areas of Interest - 18-28 hours

¹The individualized specialty areas may include certifications that have a set number of credit hours to complete the state certification as approved by DESE and EPPC or an individualize selection of up to 18 credit hours approved by advisor and EdD program coordinator. Examples of certifications include Superintendent Certification (27 hours), Elementary Math Specialist (24 hours), Gifted and Talented Certification (18 hours), Library Media Specialist (12 hours + 6 additional elective hours).

Certificates

Autism Spectrum Disorders Certificate

Program Description

A 9 credit hour Missouri State University Graduate Certificate in Autism Spectrum Disorders (ASD) is available to nondegree-seeking individuals or as a component of the Masters degree in Special Education, ASD emphasis. Students pursuing a program of study in other areas of education may also complete these courses as electives or in addition to requirements on the respective

program of study. The certificate is also offered to support professionals in the fields of psychology, communication disorders, social work, medicine, and other related specialties. The certificate will not lead to teacher certification in autism; however, it is offered to support educators and other professionals who desire greater expertise in the area of ASD. Emphasis is placed on supporting individuals with challenging behavior through positive behavioral supports and supporting communication, learning and sensory deficits through validated, data-based programming. Required coursework for the ASD Graduate Certificate follows.

Entrance Criteria

To be considered for the program, a student submit a Graduate Application for admission to the certificate program.

Required Courses

- SPE 625 - Introduction to Teaching and Assessing Students with Autism Spectrum Disorders
- SPE 616 - Foundations of Applied Behavior Analysis and Interventions for Teachers in Applied Settings
- SPE 627 - Research-Based Strategies for Individuals with ASD

Total (Minimum) Credit Hours: 9

GPA Requirements

Attain a grade point average of at least 3.00 on all graduate course work at Missouri State University.

College Teaching Certificate

Program Description

The Graduate Certificate in College Teaching provides a 9-hour graduate-level experience that will prepare students for entry-level college teaching. Certificate courses provide for the acquisition of knowledge and skills necessary to facilitate adult learning such as effective teaching methods, strategies for both the traditional and online classroom, the faculty member's role in curriculum development, strategies that improve student success at the college level, digital technology in the college classroom, and other topical issues in higher education.

Entrance Criteria

To be considered for the program, a prospective student must meet the admission requirements for a Graduate Certificate at Missouri State University.

Required Courses - Credit Hours: 9

- SFR 751 - Introduction to Teaching and Learning
OR
- SFR 621 - Techniques for Teaching Adults
- EDT 764 - Instructional Design
OR

- SFR 676 - Topical Issues in Education
- EDT 660 - Digital-Age Learning Environments
OR
- EDT 761 - Online Teaching and Pedagogy

Completion Requirement

Students must meet program and certificate completion requirements set forth by Missouri State University's Graduate College.

Comprehensive Systems of Support Certificate

Program Description

The Graduate Certificate in Comprehensive Systems of Support provides a 12-hour graduate-level experience for school administrators, teachers, and individuals working at the school building level. The program provides knowledge and expertise in multi-tiered systems of support, positive behavior interventions and supports, response to intervention, and specific strategies for creating levels of support to address intervention beyond restrictive student settings. The certificate is interdisciplinary in nature and provides competencies in comprehensive systems and inclusive educational environments. This certificate is a Missouri State University Certificate and **does not meet Missouri State Certification requirements for teaching.**

Admissions criteria

1. Completion of the baccalaureate degree from an accredited college or university.
2. A personal statement that addresses the applicant's professional career goals and how the program will help accomplish these goals.
3. Two letters of recommendation.
4. A brief resume or curriculum Vita.
5. Students for whom English is a second language must earn a minimum score of 79 (internet-based) on the Test of English as a Foreign Language (TOEFL) or a 6.0 on the International English Language System (IELTS).

Course Requirements

Previous coursework will be evaluated by program coordinator and prerequisite exceptions will be made based off of course content and knowledge.

Required Courses - Credit Hours: 12

Required Courses

- SPE 619 - Methods I: Cognitive and Behavioral Teaching Approaches for Exceptional Learners
- SPE 660 - Working with Families of Exceptional Individuals
- SPE 710 - Problems in Special Education
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education

Dyslexia Certificate

NOTE: NOT ACCEPTING APPLICATIONS AT THIS TIME

Program Description

The Graduate Certificate in Dyslexia provides a 12-hour graduate-level program for individuals interested in understanding the complexities of working with students identified as dyslexic or those demonstrating characteristics of dyslexia. The certificate program provides students with both theory and practical knowledge, including hands-on training, for working with students with dyslexia. The certificate is designed to equip teachers with knowledge of working with students in their own classroom or in an intervention setting. **This is a certificate issued by Missouri State University and does not represent state or national certification in dyslexia.**

Entrance Criteria

1. Undergraduate GPA of 2.75 or higher.
2. Undergraduate degree in education or a related field.
3. Admission to the Graduate Certificate in Dyslexia program.

Certificate Requirements

- LTC 631 - Introduction to Dyslexia: Literacy Development, Language, and the Brain
- LTC 632 - Assessment Procedures for Students with Dyslexia
- LTC 633 - Interventions for Students with Dyslexia
- LTC 634 - Dyslexia Practicum: Assessments and Interventions

GPA Requirement

Students must have an overall GPA of 3.00 for completion of the program.

Education of Gifted and Talented Students Certificate

Program Description

The Graduate Certificate in the Education of Gifted and Talented Students provides a 12-hour* graduate-level experience for educators, administrators, curriculum developers, school leaders, or community members who are interested in the education of gifted and talented students. The program provides for the acquisition of knowledge, skill and dispositions necessary for educators to recognize the variations in learning and development in cognitive and affective areas between and among individuals with gifts and talents and to modify education programs including curriculum, instruction, assessment and environment to provide them with meaningful and challenging learning experiences.

Admission Criteria

To be considered for the program, a student must have a 3.00 grade point average. Students who do not meet the normal admission requirements, but who provide evidence of outstanding potential, will be considered for probationary admission. Probationary conditions will be defined by the graduate program faculty. Students in an Accelerated Master's, MEd, EdS, or a doctoral program are encouraged to consider this certificate program. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Program Requirements

Required Courses - Credit Hours: 12 *

- EEM 720 - Introduction to Learner Development and Differences in Gifted and Talented Education
- EEM 721 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education I
- EEM 722 - Curriculum Planning, Instruction and Assessment in Gifted and Talented Education II
- EEM 723 - Learning Environments and Collaborations in Gifted and Talented Education

Note:

***Adding SFR 780 - Educational Research Methodology and ELE 772 - Research Seminar in Elementary Education or EEM 799 - Thesis will earn Missouri DESE certification for Gifted and Talented Education.**

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Education of the Deaf and Hard of Hearing Certificate

Program Description

A 14-credit hour Missouri State University Graduate Certificate in Education for the Deaf and Hard of Hearing (EDHH) is available to non degree-seeking students or students pursuing a program of study in other areas who are interested in completing these courses as electives or in addition to requirements on the respective program of study. The certificate is also offered to support professionals in the fields of communication sciences and disorders, education, psychology, social work, medicine and other related specialties. **The certificate will not lead to teacher certification in EDHH;** however, it is offered to support educators and other professionals who desire basic skills in the area of EDHH. Required course work for the EDHH Graduate Certificate follows:

Program Admission Requirements

To be eligible to apply for admission to this program, the student must:

1. Have an undergraduate degree in communication sciences or disorders, education or a related area.
2. Have a cumulative grade point average (GPA) of at least 3.00.
3. Submit the Graduate Application.

EDHH Graduate Certificate Curriculum

- SPE 762 - Speech Development: Deaf and Hard of Hearing I
- SPE 766 - Counseling: Deaf and Hard of Hearing
- SPE 765 - Reading: Deaf and Hard of Hearing
- SPE 757 - Language Development: Deaf and Hard of Hearing I
- SPE 759 - Early Intervention: Deaf and Hard of Hearing

Total Credit Hours: 14

Education of the Deaf and Hard of Hearing: Instruction, Auditory Development and Practice Certificate

Program Description

A 15-credit hour Missouri State University Graduate Certificate in Auditory and Instructional Strategies, Deaf and Hard of Hearing is available to teachers who hold a bachelor's degree in special education, current teacher certification in special education, and admission to or completion of the Online Education of the Deaf and Hard of Hearing Graduate Certificate. Required course work for the Education of the Deaf and Hard of Hearing: Instruction, Auditory Development and Practice graduate certificate is as follows:

Admission Requirements

To be eligible to apply for admission to this program, the student must have:

1. An undergraduate degree in special education from an accredited university
2. Current teacher certification in special education
3. A cumulative GPA (of all coursework) of 3.00 on a 4.00 scale.
4. Admission to or completion of the online Education of the Deaf and Hard of Hearing graduate certificate
5. The following courses or their equivalent completed or in process:
 - a. SPE 630 - Conceptually Accurate Signed English I **Credit Hours: 3**
 - b. SPE 631 - Conceptually Accurate Signed English II **Credit Hours: 3**

Required Courses - Credit Hours: 15

- SPE 758 - Early Intervention Assessment: Deaf and Hard of Hearing
- SPE 763 - Auditory Development: Deaf and Hard of Hearing
- SPE 764 - Instructional Strategies: Deaf and Hard of Hearing
- 4 credits (3 credits spring; 1 credit summer) of CSD 784 - Non-Thesis Project
- 3 credits (1 credit spring, 2 credits summer) of CSD 795 - Advanced Clinical Practice

Educational Technology Certificate

Program Description

The Graduate Certificate in Educational Technology provides a 12 hour graduate-level experience for school administrators, teachers and staff or those in other occupations who desire this expertise. The program provides for the acquisition of knowledge and skills necessary for technology support and training. The certificate is open to professionals from a variety of disciplines and specialties. **This certificate is a Missouri State University Certificate and does not meet the State of Missouri certification requirements for teaching.**

Entrance Criteria

To be considered for the program, a prospective student must meet the admission requirements for a Graduate Certificate at Missouri State University.

Required Courses - Credit Hours: 12

- EDT 660 - Digital-Age Learning Environments
- EDT 665 - Selection and Utilization of Educational Technology
- EDT 763 - Administration of Educational Technology
- EDT 764 - Instructional Design

GPA Requirement

Students must maintain a grade point average of at least 3.00 on all graduate course work at Missouri State University.

Elementary Curriculum and Instruction Certificate

Program Description

The graduate certificate in curriculum and instruction provides a 12-hour graduate-level experience for educators, administrators, curriculum developers, school leaders, or community members who are interested in the elementary education. The program provides for the acquisition of advanced knowledge and skills necessary for understanding and developing curriculum, and draws on research-based principles supported with current technology in exploring best practices in instruction. The certificate is designed to look at research, practices, and related issues relevant to teaching and learning in the PreK-8 environment. Through standards-based activities from various content areas, student will experience instructional methods and curriculum as they become prepared to be leaders in their schools.

Admission Criteria

To be considered for the program, a student must submit a graduate application and have a 3.00 grade point average. Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. Probationary conditions will be defined by the graduate program coordinator. Students in an accelerated master's and postbaccalaureates are encouraged to consider this certificate. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses Credit Hours: 12 - Select 4 Courses

- ELE 710 - Elementary School Curriculum

- ELE 721 - Standards-Based Integrated Curriculum, Learning, and Teaching
- ELE 722 - Differentiated Instruction for Early Childhood, Elementary, and Middle School
- ELE 713 - Advanced Theory and Practice in the Teaching of Communication Arts
- ELE 714 - Advanced Theory and Practice in the Teaching of Social Studies
- ELE 715 - Advanced Theory and Practice in the Teaching of Mathematics
- ELE 716 - Advanced Theory and Practice in the Teaching of Science
- 3 credits of EEM 676 - Topical Issues in Education
- 3 credits of EEM 796 - Problems in Education

Completion Requirement

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Elementary Mathematics Specialist Certificate

Program Description

The graduate certificate in elementary mathematics specialist provides a 16 hour graduate-level experience for educators, specifically early, elementary, middle school or high school teachers and curriculum directors. The graduate certificate in elementary mathematics specialist is designed for practicing teachers (with at least 1 year of experience teaching elementary or middle school). This track is part of a statewide mathematics specialist certification in collaboration with other Missouri universities and culminates with a certification as an elementary mathematics specialist through the state of Missouri. Elementary mathematics specialist (EMS) professionals can serve students and schools in a variety of ways including as classroom teachers, lead or mentor teachers, and school or district-based mathematics specialists.

Entrance Criteria

To be considered for the program, elementary or middle school teachers must be currently teaching with at least 1 year of classroom experience, strong interest in enhancing mathematics content and pedagogical preparation, and commitment to completing the requirements of the program in a 2-year period as part of a graduate cohort.

Students who do not meet the normal admission requirement, but who show an indication of high promise, will be considered for probationary admission. Probationary conditions will be defined by the certificate advisor in collaboration with the math department. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Credit Hours: 16

- ELE 734 - Internship in Algebraic Reasoning
- ELE 736 - Foundations of Mathematical Leadership I for Elementary Mathematics Specialists
- ELE 737 - Foundations of Mathematical Leadership II for Elementary Mathematics Specialists
- ELE 738 - Internship in Geometry and Measurement
- MTH 754 - Algebraic Reasoning for Elementary Mathematics Specialist
- MTH 758 - Data and Probability for Elementary Mathematics Specialist
- MTH 760 - Geometry and Measurement for Elementary Mathematics Specialist

Prerequisite Courses - Credit Hours: 8

- ELE 730 - Internship in Number and Operations
- ELE 732 - Internship in Rational Numbers and Proportional Thinking
- MTH 750 - Number and Operations for Elementary Mathematics Specialists
- MTH 752 - Rational Numbers and Proportional Thinking for Elementary Mathematics Specialists

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Environmental STEM for Teachers Certificate

Program Description

The Graduate Certificate in Environmental STEM for Teachers provides a 12 hour graduate-level experience for educators, naturalists, conservationists, environment workers, or community members who are interested in conservation education. The program provides for the acquisition of knowledge and skills necessary for understanding and appreciating Missouri habitats and wildlife through the use of scientific materials, technology, engineering, and mathematics (STEM) practices. The certificate is also designed to provide a foundation on integrating conservation education into inquiry-based teaching. Through Grade Level Expectation-based activities from all content areas; students will be trained in basic field biology to foster the confidence necessary to lead public school students in outdoor settings.

Admission Criteria

To be considered for the program, a student must submit a graduate application and have a 3.00 grade point average. Students who do not meet the normal admission requirement, but who show an indication of high promise, will be considered for probationary admission. Probationary conditions will be defined by the certificate advisor. Students in the accelerated master's program, seniors, and postbaccalaureates are encouraged to consider this certificate. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Credit Hours: 12

- EEM 616 - Nature Unfolds
- EEM 617 - Nature Unleashed
- EEM 618 - Project Wet, WILD, and Learning Tree
- EEM 619 - Nature Unhooked: Conserving Missouri's Aquatic Ecosystems

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Family and Consumer Sciences Education Certificate

Program Description

The certificate in family and consumer sciences education provides a 15 hour graduate-level experience for educators and those working with community organizations who are interested in family and consumer science (FCS) education. The program provides for the acquisition of knowledge and skills necessary for understanding and implementing FCS content and resources for all educators. The certificate is designed to provide a foundation for integrating hands on learning into the FCS classroom. Through course-based activities from various FCS content areas, students will be prepared to develop curriculum, lead student organizations, and continue professional development opportunities.

Admission Criteria

A grade point average of 2.75 is required for admission.

Required Courses - Credit Hours: 15

- CTE 715 - Child and Family Development Instruction in the Middle and High School
- CTE 720 - Advanced Curriculum Development for Career and Technical Education Programs
- CTE 725 - Career and Technical Education Leadership
- 3 credits of CTE 600 - Issues in Career and Technical Education

Electives - Credit Hours: 3

- 3 credits of CTE 600 - Issues in Career and Technical Education
- CTE 701 - Supervision of Student Teachers in Career and Technical Education
- Any other related course approved by certificate advisor **Credit Hours: 3**

International Perspectives in K-12 Special Education Certificate

Program Description

This certificate provides coursework to improve or broaden the student's cultural competence and understanding of special education and disability-related instructional practices. Students will receive exposure to international approaches to education for persons with disabilities, and will complete one education abroad experience with an emphasis on K-12 special education in an international setting. The goal of this certificate will be to broaden the graduate student's perspective regarding education in the global society and the implementation of special education programs and services for children and adults with disabilities.

Admission Criteria

The International Perspectives in K-12 Special Education Graduate Certificate Program is open to all interested persons eligible for graduate coursework. International students must meet Missouri State University language proficiency standards through one of the following procedures: TOEFL-IBT score of 79, IELTS score of 6.0, or Missouri State English Language Institute (ELI) completion of Level 5; however, the language requirement may be waived through successful interview with departmental committee.

Program Requirements - Credit Hours: 9

Required Courses

Requirement A: Foundation Course in Special Education - Choose One Course From the Following

SPE 780 may be used only for requirement A or B, but not both.

- SPE 715 - Foundations in Special Education
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education

Requirement B: Diversity or Education or Child and Family Development course - Choose One Course From the Following

SPE 780 may be used only for requirement A or B, but not both.

- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education
- COU 714 - Social-Cultural Diversity in Counseling
- EAD 784 - Multicultural Issues Involving Human Relations and Collaborative Processes
- EAD 864 - Diversity and Community Relations
- SPE 607 - Services and Diversity in Blindness and Low Vision and Additional Disabilities
- ECE 675 - Working with Culturally and Linguistically Diverse Children and Families in Early Childhood
- LTC 600 - Literacy Projects
- EDC 701 - Teaching and Learning II: Diversity, Curriculum and Research
- SAE 727 - Inclusive Campus Environment

Requirement C: International Perspectives in K-12 Special Education - Education Abroad course

- SPE 640 - International Experiences in K-12 Special Education - Education Abroad

Note:

For international candidates who seek the certificate through contracted partnerships with Missouri State University, the SPE 640 International Experience will be provided in the Southwest Missouri region.

Requirement D: As Needed.

As needed. In the event that completion of required coursework does not result in minimum of 9 hours such as those student selecting to take SPE 607 for 2 hours of credit, students may select related electives as approved by the Special Education Program Coordinator or CLSE Department Head. Recommended electives include, but are not limited to:

- SPE 664 - Language Development of Exceptional Students
- SPE 710 - Problems in Special Education

Completion Requirements

Students must take a minimum of 9 hours as designated and approved, and must have an average cumulative grade point average of 3.0 or better in the courses required to receive the certificate. Students must satisfy all prerequisites for any courses they take in the program, or they must obtain instructor approval to waive any prerequisites.

Literacy Certificate

Program Description

The Graduate Certificate in Literacy provides a 12-hour graduate-level experience for several groups of students: those working on Department of Elementary and Secondary Education (DESE) Special Reading Teacher, K-12, certification-only coursework; those in other graduate programs who want to add additional literacy (LTC) coursework as an emphasis area; those who already have a master's degree but want to add the DESE Special Reading Teacher, K-12, certification; or those in other situations where additional literacy coursework would allow them to qualify for a new position in the field of education. The certificate program provides for the acquisition of knowledge and skills necessary for supporting teachers and students. **This certificate is a Missouri State University Certificate and does not meet Missouri's DESE Certification requirements for teaching.**

Entrance Criteria

To be considered for the program, a student submits a Graduate Application for admission to the certificate program.

Certificate Requirements - 12 credits

There are no required courses for the certificate because students are at all levels of need. Students may choose from the list of LTC courses below:

Courses Listed Below Meet DESE Special Reading Teacher, K-12, Certification Requirements:

- LTC 640 - Analysis and Correction of Difficulties in Literacy
- LTC 673 - Psychology of Global Literacies
- LTC 680 - Successful Classroom Communities to Enhance Student Learning
- LTC 685 - Techniques of Responsive Support in the Literacy Classroom
- LTC 700 - Relationship of Language to Literacy and Intellectual Development
- LTC 710 - Content Area Literacy
- LTC 780 - Assessment Procedures for the Literacy Specialist
- LTC 781 - Assessment of Literacy Problems (must be taken concurrently with LTC 782)
- LTC 782 - Remediation of Literacy Problems

Additional LTC Courses Below May, Also, Be Used to Complete the 12 Hours Requirement (as needed):

- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
- LTC 665 - Cultural Diversity in Literacy and Instruction: Classrooms and Community
- LTC 740 - Issues and Trends in Literacy Education
- LTC 770 - Curriculum Design in Literacy

GPA Requirement

Students must maintain a grade point average of at least 3.00 on all graduate course work at Missouri State University.

Online Teaching and Learning Certificate

Program Description

The Graduate Certificate in Online Teaching and Learning provides a 12 hour graduate-level experience that will prepare students with the skills and knowledge required to be an effective online instructor. The certificate curriculum provides preparation in the areas of online instruction, including pedagogy, and models for synchronous and asynchronous online learning, classroom management, instructional strategies, learning analytics, and assessment.

This certificate is a Missouri State University certificate and does not meet the State of Missouri certification required for teaching.

Entrance Criteria

To be considered for the program, a prospective student must meet the admission requirements for a Graduate Certificate at Missouri State University.

Required Courses - Credit Hours: 12

- EDT 660 - Digital-Age Learning Environments
- EDT 761 - Online Teaching and Pedagogy
- EDT 764 - Instructional Design
- EDT 765 - Educational Media Production

Orientation and Mobility Certificate

Program Description

The Graduate Certificate in Orientation and Mobility is available to non degree-seeking individuals or as a component of the Masters degree in Special Education, Visual Impairment emphasis. The Orientation and Mobility (O&M) certificate is designed to meet regional needs and is aligned to the standards set by the Association of Education and Rehabilitation of the Blind and Visually Impaired (AER) and Academy of Certification of Vision Rehabilitation and Education Professionals (ACVREP). Small cohorts of individuals who desire to pursue certification in O&M will be identified based upon geographic need and individual qualifications. The instructor(s) for SPE 712 will conduct a very intensive face to face experience in which participants will spend several hours each day over the span of the course under the blindfold practicing instructional techniques and strategies of O&M. SPE 760 is the internship course and participants must meet rigid standards set by AER and ACVREP. Prerequisites may be required based on transcript analysis. Prerequisites: Braille I or its equivalent (grade of C or better).

Entrance Criteria

To be considered for the program, a student submit a Graduate Application for admission to the certificate program.

Required Courses

- SPE 606 - Principles of Orientation and Mobility *
- SPE 608 - Low Vision, Anatomy and Physiology of the Eye *
- SPE 712 - Instructional Techniques and Strategies of Orientation and Mobility
- SPE 714 - Professional Issues and Assessment in Orientation and Mobility with Diverse Populations *
- SPE 730 - Health, Functional, and Psychosocial Aspects of Disability
- SPE 760 - Internship-Orientation and Mobility

Total (Minimum) Credit Hours: 18

*Offered via internet.

GPA Requirements

Attain a grade point average of at least 3.00 on all graduate course work at Missouri State University.

Perspectives About the American Higher Education System Graduate Certificate

This program is a contract program which provides a graduate-level experience for international students to have intensive experience in the American Higher Education arena.

Program Description

The Graduate Certificate in Perspectives about the American Higher Education System is a contract program, which provides a 9-hour graduate-level experience for international students to have intensive experience in the American Higher Education arena. This certificate would fill a special niche for international students who, predominately, already possess a doctorate in their own country in areas of science, math, and languages. The students have requested intense experiences in American colleges and universities, including public and private institutions.

Entrance Criteria

To be considered for the program, a student must formally apply to the university for admission to the certificate program. Admission is typically granted to cohorts of students.

Required Courses Credit Hours: 9

- SAE 755 - Topical Seminar
- SAE 748 - Special Projects: Reflective Moments in Higher Education and Student Affairs
- SAE 748 - Special Projects: Reflective Moments in Higher Education and Student Affairs **Credit Hours: 3**

Special Education Director Certificate

Program Description

A 15 credit hour Missouri State University Special Education Director Graduate Certificate is available to post-master's individuals or as an added component of the Master's degree in Educational Administration (Elementary or Secondary Principal). The certificate is also offered to students who have completed an Educational Specialist in Educational Administration (Elementary, Secondary or Superintendent). The Graduate Certificate provides students with Department of Elementary and Secondary Education certification as a Special Education Director (K-12) while acquiring advanced knowledge and skills in the fields of educational administration and special education. Course work is designed to reflect State and National standards with demonstrated mastery of competencies through research-based projects.

Admission Criteria

To be considered for the program, a student must submit a Graduate Application. A student must also have a Master's or Specialist degree in Educational Administration. Candidates must submit a written "Statement of Purpose" containing long-term goals of leadership; a professional reference from an immediate supervisor regarding performance; and a copy of appropriate teacher certificate of eligibility for certification by a state agency as a K-12 building - or district level- administrator; documentation of 3.5 GPA in graduate degree program. Candidates will also be required to complete an individual interview with the advisor prior to admission.

Required Courses

(Educational Administration courses are taught **Missouri State Direct**, live interactive technology)

- EAD 787 - Administration of Special Programs
- SPE 782 - Advanced Diagnosis and Remediation of Students with Mild to Moderate Disabilities
- SPE 792 - Advanced Diagnosis and Remediation of Students with Disabilities Lab
- SPE 671 - Clinical Practicum in Special Education
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education
- EAD 884 - Special Education Director Administration Internship-Part I
- EAD 885 - Special Education Director Administration Internship-Part II

Total (Minimum) Credit Hours: 15

*offered via the internet

GPA Requirements

Attain a grade point average of at least 3.50 on all graduate course work at Missouri State University.

Special Education Technology and Innovation Certificate

Program Description

The Graduate Certificate in Special Education Technology and Innovation provides a 9-hour graduate-level experience for school administrators, teachers, and individuals working at the school building level. The program provides specific knowledge about differentiation and embedding technology and assistive technology to meet the needs of students with disabilities and other diverse learners in educational environments. The certificate is interdisciplinary in nature and provides competencies in various types of instructional and assistive technology. This certificate also will contain the opportunity for acquisition of nationally recognized micro-credentials commonly recognized by educational community. This certificate is a Missouri State University certificate and **does not meet Missouri State Certification requirements for teaching**.

Admissions Criteria

1. Completion of the baccalaureate degree from an accredited college or university.
2. A personal statement that addresses the applicant's professional career goals and how the program will help accomplish these goals.
3. Two letters of recommendation.
4. A brief resume or curriculum Vita.
5. Students for whom English is a second language must earn a minimum score of 79 (internet-based) on the Test of English as a Foreign Language (TOEFL) or a 6.0 on the International English Language System (IELTS).

Required Courses - Total Credit Hours: 9

- SPE 779 - Application of Technology in Special Education
- SPE 784 - Advanced Procedures in Teaching Students with Mild to Moderate Disabilities
- SPE 787 - Advanced Behavioral Analysis and Intervention

Teacher Leadership Certificate

Program Description

The certificate is designed for those teachers who want to improve their own practice and develop teacher leadership skills and understandings, but who do not want to pursue the complete Specialist in Education, Teacher Leadership. To earn the certificate in Teacher Leadership, students must follow the admission procedures for the Specialist in Education, Teacher Leadership (see SETL graduate catalog description). Please note: This certificate in Teacher Leadership does not prepare (or certify) teachers to work as a building principal.

Entrance Requirements

To be considered for the program, a student submits a Graduate Application for admission to the certificate program.

Required Courses - Credit Hours: 18

- EDC 800 - Teacher Leadership I: Contemporary Educational Problems
- EDC 801 - Teacher Leadership II: Diversity and Curricular Design
- EDC 802 - Teacher Leadership III: Building Classroom Climate and Effective Student Assessments
- EDC 803 - Teacher Leadership IV: Curriculum Theory

Teaching and Learning Certificate

Program Description

The certificate is designed for those teachers who want to improve their own practice and participate in important school community decisions, but who do not want to pursue the complete Master of Arts in Teaching and Learning. To earn the certificate in Teaching and Learning, students must follow the admission procedures for the Master of Arts in Teaching and Learning (see MATL graduate catalog description). Please note: This certificate in Teacher and Learning does not prepare (or certify) teachers to work as a building principal.

Entrance Requirement

To be considered for the program, a student submits a Graduate Application for admission to the certificate program.

Required Courses - Credit Hours: 18

- EDC 700 - Teaching and Learning I: Current Issues and Trends in Education
- EDC 701 - Teaching and Learning II: Diversity, Curriculum and Research
- EDC 702 - Teaching and Learning III: Management and Assessment of Learning
- EDC 703 - Teaching and Learning IV: Curriculum Development

College of Natural and Applied Sciences

Academic Units

Schools

- School of Earth, Environment and Sustainability

Departments

- Department of Biology
- Department of Chemistry and Biochemistry
- Department of Computer Science
- Department of Mathematics
- Department of Physics, Astronomy and Materials Science

Program

- Cooperative Engineering Program (Missouri University Science and Technology)

Centers/Departments

- Baker Observatory
- Bull Shoals Field Station
- Center for Resource Planning and Management
- Ozarks Environmental and Water Resources Institute

Contact

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Master's Programs

Biology, MS

Program Description

The Department of Biology offers a Master of Science in Biology, participates in the Master of Natural and Applied Science (MNAS) and the Master of Science in Plant Science, and in conjunction with the College of Education, the Master of Science in Education with emphases in biology and natural science. Together with an advisor, students design an individual program of study, selecting courses that provide additional background in biology as well as developing an area of concentration.

Areas of research include animal behavior, aquatic biology, cellular biology, ecology, ecotoxicology, evolution, field biology, immunology, microbiology, physiology, systematics, and wildlife conservation. During the first semester, the student declares an area of specialization and begins to pursue a research problem (thesis) with the close supervision of a graduate faculty thesis committee.

Most course work is usually completed by the end of the second or third semester, and the thesis option is completed after four or five semesters (or a student petitions for the non-thesis option; see below). A comprehensive examination is taken during the second year. A maximum of 9 hours of approved graduate courses taken in related subjects outside the Biology department may be counted.

This graduate program has been designed to provide opportunities for continued study and mastery of new skills for those who desire to maintain or increase their competence in biology and its allied environmental and health-related fields. Some students completing the program have continued their education in doctoral programs, while others have accepted positions as ecologists, conservationists, industrial laboratory supervisors, research assistants, or teachers in secondary schools or colleges.

Graduate Assistantships

Evaluation of applications for teaching assistantships begins on February 15 (fall assistantships) and October 1 (spring assistantships), and will continue until positions are filled. Applicants must first be accepted into the program, and files must be complete to be considered. Therefore, applicants should apply by January 15/Sept 15 to ensure being considered for a TA position. Applications for research assistantships should be sent directly to individual faculty advisors, and not the Graduate Director.

Retention Requirements

To remain in the program, a student must maintain a GPA of 3.00 and make satisfactory progress on the research project.

Admission Requirements for the Accelerated Master's Option

1. Junior standing, a GPA in biology of 3.25 or better and an overall GPA of 3.25 or better.
2. Completion of BIO 121, BIO 122, BIO 235, BIO 369, BIO 310 or BIO 320 or BIO 361; CHM 201 and CHM 202 or CHM 342; MTH 138 or MTH 135 and MTH 181 with an overall GPA of 3.25 or better.
3. Undergraduate laboratory or field research experience in residence in the Department of Biology with a supportive recommendation from the student's undergraduate research advisor. [Note: undergraduate research experience at another university conducted in collaboration with Missouri State University Biology faculty may be considered.]
4. GRE scores commensurate with the advanced standing of this option.
5. Acceptance of applicant by a graduate faculty member who agrees to serve as the student's graduate research advisor.
6. Acceptance of the applicant by the graduate faculty in Biology under the accelerated masters option.

Accelerated Master's Degree Option

Eligible Missouri State University majors in biology may apply for preliminary acceptance into the Master of Science program in Biology after admission requirements for the accelerated masters option have been satisfied. {Note: biology majors at other universities approved for participation in this program may apply if they meet the requirements below.} If accepted, graduate courses chosen from approved 600 or 700-level courses may be counted toward both the graduate and undergraduate degrees, with a maximum of 12 credit hours counted. This option offers an opportunity for biology majors with undergraduate laboratory

research experience to complete the course requirements for the Master of Science degree in Biology in two semesters and a summer after attaining the Bachelor's degree, rather than the typical four semesters and a summer. Contact the Department of Biology for further information and guidelines.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the courses toward the masters degree, an undergraduate student must be accepted into the accelerated program and complete a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the "Graduate College" section for further information.

Entrance Requirements

1. The student must have a minimum of 24 undergraduate hours (or equivalent) in biology. In the case of a student whose preparation for formal graduate study is judged to be inadequate (including cognate areas such as chemistry, physics, or mathematics), a program of prerequisite course work may be outlined for the purpose of properly supplementing his/her preparation. Such courses will not be credited as course requirements for the degree.
2. Candidates for admission to programs in biology are required to have a GPA of at least 2.75 (on a 4.00 scale) for the last 60 semester hours of undergraduate work and a 3.00 average in biology. A GPA of at least 3.00 is required to be considered for a graduate assistantship.
3. Scores from the Graduate Record Examination (GRE), General Test must be submitted.
4. A statement of interest and three letters of reference are required for admission to the degree program.

Degree Requirements Credit Hours: 32

1. **Program of Study.** The program for each candidate will be structured by the candidate's committee in consultation with the student, and must include at least 32 semester hours of graduate credit. Evaluation of previous training and academic objectives will be important factors in establishing this program.
2. **Biology Requirement** (minimum 23 semester hours). A minimum of 16 hours of biology from courses numbered 700-799 inclusive.
3. **Electives** (maximum 9 semester hours). Approved graduate courses may be selected from related fields to a maximum of 9 hours. Any deviation from this maximum will require approval by department head.
4. **Research.** For both options, the student is required to give an oral presentation of his/her work to the Department.
 - a. *Thesis Option:* Completion of a satisfactory thesis in the candidate's discipline (maximum of 6 hours of BIO 798 and 6 hours of BIO 799).
 - b. *Non-thesis Option:* After an unsuccessful attempt at a thesis, and with the permission of the thesis committee and department head, a student may switch to a non-thesis option. This requires the completion of a minimum of two degree papers, each of which shall require an extensive paper or major creative work. Four hours of BIO 790 and four hours of BIO 798 may be counted toward this degree under this option.
5. **Comprehensive Examination.** Both a written and an oral comprehensive examination must be passed by the candidate before a degree will be granted.

The written examination is taken after most of the course work has been completed, and is written and evaluated by the student's thesis committee. The examination can include comprehensive questions in biology and questions specific to the area of study chosen by the student. The use of computers is encouraged, where appropriate, for the written examination. The oral examination follows the presentation of the student's thesis research or degree paper to the faculty. The examination tests the student's understanding of the research or degree paper.

Chemistry, MS

Program Description

This program is designed to prepare students to work in industrial or governmental chemistry laboratories, or to pursue doctoral studies in chemistry.

Program Objectives

Development of a sound knowledge of chemical principles, acquisition of outstanding research and communication skills, and attainment of an understanding and appreciation of applied chemistry and the importance of multidisciplinary approaches to the solution of scientific problems.

Areas of specialization include analytical chemistry, biochemistry, chemical education, environmental chemistry, inorganic chemistry, materials chemistry (including polymer chemistry and nanotechnology), organic chemistry, and physical chemistry.

Formal courses, graduate seminars, professional advisement, directed research, and an extensive written document (thesis or non-thesis) will be incorporated into a customized curriculum based on the individual's scholastic background and career goals. On completion of the program, students will have developed the skills needed for careers in chemical production, development, or research.

Assistantships and Application Deadlines

Initial review of applications for program admission begins February 15 for subsequent fall semesters and September 15 for subsequent spring semesters. Late applications may be considered subject to program enrollment. Teaching Assistantship requests will be addressed at the time of admission decision.

Entrance Requirements

Students admitted to the graduate chemistry program in full standing must meet the following requirements:

1. A bachelor's degree from an accredited institution in the U.S. or equivalent training in a foreign university.
2. A minimum overall GPA of 3.00 on a 4.00 scale, or a minimum GPA of 3.00 on a 4.00 scale for the last 60 hours of course work.
3. Scores from the Verbal Reasoning, Quantitative Reasoning, and Analytical Writing sections of the Graduate Record Examination. Normally, students are expected to score at or above the 50th percentile on each section of the GRE. A waiver of this requirement may be requested for exceptional circumstances.
4. International applicants from countries not recognizing English as the primary official language are additionally required to submit a score for the Test of English as a Foreign Language (TOEFL) of not less than 550 (paper-based), 213 (computer-based), or 79 (internet-based) and with a minimum of 50th percentile on the Listening Comprehension Section.
5. A minimum undergraduate foundation in chemistry and supporting content consisting of two semesters of general chemistry with lab, two semesters of organic chemistry with lab, one semester of analytical chemistry with lab, one semester of inorganic chemistry, two semesters of calculus, and two semesters of college-level physics, all with grades of "C-" or better and with a combined GPA of not less than 3.00. Applicants lacking any of the foundation courses listed may not be admitted until the deficiencies are rectified with appropriate course.

Students who do not meet the grade point standards outlined above may be granted conditional admission to the program. As conditions of admission, students will be required to complete a minimum of 9 hours of specified graduate courses with a GPA of at least 3.00 to be advanced to full standing in the program.

Accelerated Master's Degree Option

Eligible Missouri State University majors in chemistry may apply for preliminary acceptance into the Master of Science program in Chemistry after admission requirements for the accelerated master's option have been satisfied. If accepted, graduate courses chosen from CHM 602, CHM 607, CHM 642, CHM 656 and CHM 675 may be counted towards both the undergraduate and graduate degrees, with a maximum of 12 credit hours counted towards both the undergraduate and graduate degrees. This option offers an opportunity for chemistry majors with undergraduate laboratory research experience to complete the requirements for the Master of Science degree in Chemistry in two semesters and a summer after attaining the Bachelor's degree, rather than the typical four semesters and a summer.

Before enrolling in a course to be counted as mixed credit toward both undergraduate and graduate degrees, an undergraduate student must be accepted into the accelerated program. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule period for the course(s). See the Graduate College for further information.

Admission Requirements for Accelerated Master's Degree Option

1. Junior standing with an overall GPA of 3.20 or better.
2. Successful completion of each of the following courses, all with grades of "C-" or better and with a combined GPA of not less than 3.20: CHM 160, CHM 161, CHM 170, CHM 171, CHM 302, CHM 342, CHM 343, CHM 345, CHM 375 and CHM 399; PHY 123 and PHY 124 or PHY 203 and PHY 204; MTH 261.
3. Undergraduate laboratory research experience in residence in the Department of Chemistry with a supportive recommendation from the student's undergraduate research mentor.
4. Acceptance of applicant by a graduate faculty member who agrees to serve as the student's graduate research mentor.
5. Acceptance of the applicant by the graduate faculty in Chemistry under the accelerated masters option.

Degree Requirements Credit Hours: 32

1. **Proficiency Requirements.** Entering graduate students are required to demonstrate minimal proficiency in undergraduate chemistry content by passing exams in four (4) of five (5) core areas of Chemistry - analytical, biochemistry, inorganic, organic and physical. At least two of the exams must be passed at an intermediate level. The exams are standardized assessments developed by the American Chemical Society to assess typical undergraduate content in the core areas. Students who do not achieve the prescribed test scores can meet the proficiency requirement in a given area by one of the following processes:
 - a. A student can retake and pass a proficiency exam prior to the beginning of the second semester of their graduate program (excluding summers). As part of this option it is assumed that the student will prepare for the second attempt by independent study.
 - b. A student can meet the proficiency standard for a particular core area by passing an approved graduate-level course in the area with a grade of at least "B" (intermediate level) or "C" (minimal level).
2. **Advisory Committee.** Within the first semester, the student will select a graduate advisory committee consisting of a research advisor and at least three additional persons. The research advisor should be a member of the Chemistry faculty and will serve as Chair of the committee. At least one committee member, but not more than two, shall be from outside the chemistry department. The advisory committee will monitor research progress throughout the candidate's graduate program.
3. **Program of Study.** Students will be advised initially by the department graduate director. Within the first semester and after a research advisor has been identified, the candidate's program of study will be structured in consultation with the research advisor and departmental graduate director. Academic background, professional experience, placement test scores, and personal and professional objectives will be considered in establishing the individual's program.
4. **Chemistry Course Requirement.** A minimum of 20 hours in chemistry, with at least 6 hours of 700-level CHM courses numbered 702-790. Students must address a diverse coverage of chemistry in their programs of study by including at least three different sub-disciplines: Analytical, Biochemistry, Chemical Education, Environmental, Inorganic, Organic and Physical. Deficiencies in advanced undergraduate course work - that is, the collective instructional content equivalent to the combination of CHM 602, CHM 606, CHM 607, CHM 642, and CHM 675 - as

determined from academic transcripts and/or test scores, may be included in the program of study. Course work hours from these inclusions will count toward the 32-hour program requirement as well as toward the sub-disciplinary diversity policy.

5. **Colloquium.** At least 1, but no more than 2 hours of credit must be earned in CHM 700 - Chemistry Colloquium.
6. **Interdisciplinary Electives.** Upon departmental approval, graduate courses from related fields may be included as part of the 32-hour degree requirement but no more than 6 hours may be counted from any single course code other than CHM.
7. **Research Requirement.** For all options, the student is required to give an oral presentation of his/her research to the Department.
 - a. **Thesis Option:** The maximum credit toward the 32-hour degree requirement is 6 hours of CHM 798 and 6 hours of CHM 799 with no more than 12 total hours of any combination of CHM courses numbered 791 or higher. Submission of a thesis is a specific requirement for the degree. The purpose of the thesis is to demonstrate competence in scientific research and the ability to: choose a research topic of scientific importance; conduct a comprehensive literature search of the problem; design and implement a plan of research; collect and interpret scientific data; and communicate results and interpretations to peers. An oral defense of the thesis is required.
 - b. **Non-thesis Option:** After an attempt at a research-based thesis, and with the permission of the thesis committee and department head, a student may switch to a non-thesis option. This option requires the production of two (2) extensive papers by completing CHM 792 (3 hours) and CHM 793 (1 hour), both of which will be read and evaluated by faculty committees and one of which (CHM 792) will be presented orally to a public audience and defended before the advisory committee. Four (4) hours (no more, no less) of CHM 798 must be counted toward the degree under this option and additional approved 600-or 700-level course work hours will be taken as needed to fulfill the 32-hour program requirement.
8. **Comprehensive Examination.** A comprehensive examination will be administered after most of the course work has been completed. This examination must be passed by the candidate before a degree will be given.

Computer Science, MS

Program Description

The Computer Science degree is focused on modern, applied needs of computation for business and social and personal applications. The curriculum will provide students with a practical, workforce-ready skill set for modern needs. Areas of coursework include algorithms, data mining, software engineering and quality assurance, evolutionary computing, multimedia communications, ubiquitous computing, and Internet of Things. During the first semester, in consultation with an advisor, the student will select courses, projects, and/or research to complete the program.

Entrance Requirements

1. Preference will be given to applicants with an undergraduate degree from an accredited university in Computer Science or closely related field (e.g., Computer Engineering, Math, Electrical Engineering, Software Engineering), including courses equivalent to MSU CSC 232 and MTH 314. Applicants without one of the described undergraduate degrees or courses may be admitted with the stipulation that those undergraduate courses must be completed prior to registration in graduate courses, and that the undergraduate courses will not be credited toward the MS degree.
2. GPA of at least 3.0 (on a 4.00 scale) for the last 60 semester hours of undergraduate work and a 3.0 overall undergraduate GPA.
3. Graduate Record Examination (GRE) scores: a combined score of 290 on the verbal and quantitative sections of the Graduate Record Examination.
4. English language communication: International applicants whose native language is not English and who do not have a U.S. degree are required to take the TOEFL or IELTS. Required score on the TOEFL: A minimum score of 550 on the paper version, 213 on the computer-based, or 79 on the internet-based TOEFL. Required score on the IELTS: A

minimum score of 6.0. The English language communication requirement is waived for applicants who meet one of the following: (i) are native English speakers or (ii) have completed a minimum of 60 semester credit hours from an accredited college or university in the U.S.

Admission Requirements for the Accelerated Master's Option

1. Completion of 60 or more undergraduate credit hours in a degree program of Computer Science or closely related field such as Math or Physics.
2. Completion of CSC 232 and MTH 314 with an overall GPA of 3.00 or better in all courses required for the undergraduate major.
3. GPA of 3.00 or higher in all courses required for the undergraduate major.
4. Eligible students may apply for admission during the second semester of their junior year.
5. Acceptance of the applicant by the graduate faculty in Computer Science under the accelerated masters option.

Accelerated Master's Degree Option

Eligible Missouri State University majors in Computer Science may apply for preliminary acceptance into the Master of Science program in Computer Science. If accepted, graduate courses chosen from approved 600 or 700-level courses may be counted toward both the graduate and undergraduate degrees, with a maximum of 9 credit hours counted. This option offers an opportunity for students to complete the course requirements for the Master of Science degree in Computer Science in substantially less time after completion of the Bachelor's degree. Contact the Department of Computer Science for further information and guidelines.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the courses toward the Master's degree, an undergraduate student must be accepted into the accelerated program and complete a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the "Graduate College" section for further information.

Degree Requirements - 30 hours

Program of Study

The program for each candidate will be structured by the candidate's committee or advisor in consultation with the student, and must include at least 30 semester hours of graduate credit from courses numbered 600-799 inclusive.

Required Courses

- CSC 701 - Seminar I
- CSC 702 - Seminar II

All Students Must Have

either previously completed undergraduate courses equivalent to MSU CSC 325, CSC 335, and CSC 360, or as part of graduate coursework the respective graduate courses CSC 611, CSC 612, and CSC 660. A maximum of 6 credit hours among CSC 611, CSC 612, and CSC 660 may be applied to the MS degree. (If it is necessary to take all three courses, one of the courses will not

be applied to the MS degree.) If any of the courses CSC 325, CSC 335, or CSC 360 have previously been taken as undergraduate courses, then their respective graduate equivalents may not be repeated for graduate credit.

Degree Option

Complete 27 credit hours of additional courses, such that at least 12 credit hours are at the 700-level; no more than a total of 9 credit hours may be in CSC 796, CSC 798 and CSC 799. Complete at least one of the following degree options. (Note: Up to 6 credit hours of coursework from other departments may be allowed in the degree program if approved by the Computer Science Dept.)

Thesis Option, Credit Hours: 30

Includes 6 credit hours of

- CSC 799 - Thesis

Project Option, Credit Hours: 30

Includes 3 to 6 credit hours of

- CSC 798 - Graduate Project in Computer Science

Course-only Option, Credit Hours: 30

Includes no more than 2 credit hours of

- CSC 798 - Graduate Project in Computer Science

Comprehensive Examination

A written comprehensive exam is required for students who do not complete a thesis. There are no credit hours associated with the exam.

The examination is taken after most of the course work has been completed, and is written and evaluated by the graduate faculty in Computer Science. The examination may include comprehensive questions in Computer Science and questions specific to the area of study chosen by the student.

Retention Requirements

To remain in the program, a student must maintain a GPA of 3.00 and make satisfactory progress.

Geography and Geology, MS

Program Description

The program of study is designed to provide professional training and develop scholarly analytical skills in Geography and Geology with applications in one of four options: 1) Geography; 2) Geology; 3) Geospatial Science; or 4) Planning. This program emphasizes the integration of the theoretical frameworks of Geography and Geology and Geospatial Science principles. By

combining these areas, students will be able to address research problems regarding environmental issues and resource management.

The core curriculum consists of course work in Geographic Information Science (GIS), Digital Simulation and Visualization techniques, and research methods, both written and oral. Students are encouraged to develop, with their advisors, a program that fits their individual talents and goals. The school recommends that students choose a research concentration in Geography, Geology, Geospatial Science, or Planning. If a student intends to pursue research outside these concentration areas, he/she should contact the program director (and prospective advisor, if possible) before applying to the program. Admission is granted to students with demonstrated academic competencies who are interested in a professional career in geography or geology.

Funding for graduate students in Geography and Geology is available through application for competitive graduate assistantships which carry both a stipend and fee waiver. Applications for graduate assistantships should be submitted directly to the Graduate Program Director in the School of Earth, Environment and Sustainability. Additional graduate assistantships may also be available through listings by other schools and offices.

Admission Requirements

The school's Graduate Admissions Committee requests the following materials from each applicant:

1. online application for admission;
2. Transcripts from all previously attended institutions of higher education;
3. Graduate Record Examination scores are welcome but not required for admission;
4. Three letters of recommendation from persons familiar with the candidate's academic abilities and professional potential sent within the online application system (GradCAS), by listing the reference's name and e-address in the system;
5. Separate application to the GGP Program Director for a graduate assistantship, if desired. The application for graduate assistantship is available at the Graduate College website.

Since no specific undergraduate major is required, some students may be admitted on a conditional basis if they lack sufficient academic experience to take the required core courses. In these cases, specific undergraduate courses may be required before full admission is granted. Undergraduates interested in this program are encouraged to include courses in cartography, aerial photography interpretation, statistics, chemistry, biology and environmental science. Students applying to the geology track should first contact the Director of Graduate Studies if they do not hold a comprehensive Bachelor of Science in geology undergraduate degree.

Accelerated Master's Degree Option

Eligible Missouri State University undergraduate majors in Geography, Geospatial Sciences, Geology, and Planning may apply for preliminary acceptance into the Geography and Geology program after admission requirements for the accelerated masters option have been satisfied. If accepted, a maximum of 12 credit hours from approved graduate-level courses may be counted toward both the graduate and undergraduate degrees (Mixed Credit). This option allows students with advanced course work in Geography, Geospatial Sciences, Geology, or Planning to complete a masters degree in three full semesters and one summer semester. Students can choose from GEO 651, GEO 666, GEO 668, GLG 690, GLG 672, GLG 673, GLG 680. Contact the School of Earth, Environment and Sustainability for further information and guidelines.

Admission Requirements for Accelerated Master's Option

1. Junior standing, majoring in Geography, Geospatial Sciences, Geology or Planning with an overall GPA of 3.25.
2. Majors in Geology must have completed GLG 333 and have a GPA of 3.25 in all Geology courses. Majors in Geography and Geospatial Sciences must have completed GEO 561 and have a GPA of 3.25 in all geography and geospatial sciences courses.

3. Acceptance of applicant by a graduate faculty member who agrees to serve as the student's graduate research advisor

Advisement

- Each student must consult with the school's general graduate advisor before registering for the **first semester** of classes. Students who wish to start at some time other than the Fall semester should contact the GGP Graduate Program Director prior to applying to the program.
- Each student is encouraged to identify a thesis advisor and topic as soon as possible. This will permit the selection of an appropriate faculty advisor who, in consultation with the student, will help to identify a second member of the student's advisory committee. The third member of this committee will be assigned by the school.
- Once the membership of the advisory committee has been established, the student should rely upon its members for assistance in the selection of his/her elective courses, and for advice and direction in the thesis research.
- Until such time as the advisory committee has been formed, the student should continue to consult with the school's graduate advisor.

Program Requirements

A minimum of 33 hrs with thesis; a minimum of 36 hours for the non-thesis option

Required Geospatial Sciences Core Credit Hours: 18

- GEO 700 - Introduction to Graduate Study in Geography, Geology and Planning
- GEO 701 - Graduate Research Methods in Geography, Geology and Planning
- GEO 705 - Geography, Geology, and Planning Seminar
- 3 credits of GRY 799 - Thesis
- **OR**
- 3 credits of GLG 799 - Thesis
- **OR**
- GEO 780 - Research Paper in Geospatial Sciences

ONE of the Following "Advanced Geospatial Methods": Credit Hours: 3

- GEO 651 - Remote Sensing
- GEO 661 - Applied Geographic Information Science
- GEO 666 - Advanced Geographic Information Science
- GEO 672 - Introduction to Photogrammetry and LiDAR Technology

And ONE of the Following "Digital Simulation and Visualization" Appropriate to the Profession Classes: Credit Hours: 3

- GEO 662 - Internet Geospatial Science
- GEO 668 - Geovisualization
- GEO 669 - Landscape Analysis
- GLG 676 - Geoscience Computing

Research Requirement (Complete One)

Thesis Option

A student can take up to 3 hours of GRY 779 or GLG 779 plus up to 6 hours of GRY 799 or GLG 799. Successful completion of a thesis and thesis defense is required.

Non-Thesis Option

At the discretion of the faculty, a non-thesis option may be available to students in the program. Students using the non-thesis option must complete 3 hours of GRY 779 or GLG 779 plus 3 hours of GEO 780. Successful completion of a research project and scholarly report is required. The results of the research project must be presented orally at a school seminar or at a professional meeting and the student's advisor and the school's Graduate Program Director must approve the written report on the research project. Students in the non-thesis option are not allowed to count thesis hours toward the 36 hour degree requirement.

Research Options

Students should choose at least 15 additional hours in one of the following research areas.

Geography

Courses to include additional classes listed as 600-level or 700-level GRY courses as approved by the student's Research Committee. Classes not using the GRY prefix may be substituted by recommendation of the Research Committee and approval of the GGP Graduate Program Director.

Geology

Courses to include additional classes listed as 600-level or 700-level GLG courses as approved by the student's Research Committee. Classes not using the GLG prefix may be substituted by recommendation of the Research Committee and approval of the GGP Graduate Program Director.

Geospatial Science

Courses to include additional classes listed as 600-level GEO or GEO 755 or higher as approved by the student's Research Committee. Classes not using the GEO prefix may be substituted by recommendation of the Research Committee and approval of the GGP Graduate Program Director.

Planning

Courses to include additional classes listed as 600-level or 700-level PLN courses or 600-level or 700-level GRY courses as approved by the student's Research Committee. Classes not using the PLN or GRY prefix may be substituted by recommendation of the Research Committee and approval of the GGP Graduate Program Director.

Comprehensive examination

A written comprehensive examination should be taken before the end of the second semester of full-time enrollment in the program. Students should ask each committee member to provide reading lists and/or study guides specific to their individual program of study at least 2 weeks in advance of the exam date. For students in the thesis option, the examination questions will be provided by the student's advisor and at least two other members of the student's thesis committee; for students in the non-thesis option, the examination questions will be provided by the student's advisor and two other members of the faculty selected

by the GGP Graduate Program Director. The faculty members writing the examination questions shall determine what constitutes a passing mark for their component of the exam.

To pass the comprehensive exam, a student must pass all three components (a component is the question, or questions, from a single faculty member). If a student is deemed to have not passed a section, the faculty member grading that section will discuss with the student what the shortcomings were in the student's answer. A student may repeat any section(s) of the examination, upon recommendation of the GGP Graduate Program Director and approval of the Department Head. If a student fails to pass a section on the second attempt, the faculty grader for that section will provide a written report to the Major Advisor, GGP Graduate Program Director, and School Director. If a student wishes to appeal the failed second attempt, the student must appeal in writing to the GGP Graduate Program Director and copy the School Director. If an appeal is approved, the School Director - in consultation with the Major Advisor and GGP Graduate Program Director - will appoint an objective third party to evaluate the initial two unsuccessful attempts and the third party will recommend either a Pass or Not-Pass finding. Based on the third-party review, a student can consider any further appeals following the Graduate College's policy on appeal of Comprehensive Examinations.

Students who have not passed the comprehensive examination by mid-term of their third academic semester of full-time study will not be permitted to continue in the program. If a student opts to change options after completing the comprehensive examination, the student must take and pass the examination specific to the new selected option before a degree will be awarded.

Materials Science, MS

Program Description

The Materials Science degree is designed to provide the graduate with a suitable background for employment in the exciting fields of nano, bio, and energy technology. Specifically, students will receive experience in high-technology materials synthesis, characterization, and modelling. Graduates will be prepared for employment in areas of semiconductor manufacturing, materials synthesis and testing, and other industries where high technology processing and development are required.

The program requires 15 hours of required course work, 6-9 hours of electives, 6-9 hours of research and 1 hour of seminar, for a total of 31 hours. Interdisciplinary courses taught in other departments may be used for electives if approved by the department head in advance.

At the beginning of the first semester, students' background will be evaluated to determine the student's optimum path of study. Based on the results of the students' initial evaluation, poorly prepared students may be required to take some additional course work that will not apply to the degree. Later in the first semester, the student will interview with faculty members to choose an area of thesis research.

A comprehensive examination is required usually one semester prior to graduation. The comprehensive examination is used to monitor the progress of each student through the program. At the end of the thesis project, the student will present his or her results in the form of a public thesis presentation or defense.

Entrance Requirements

Students admitted to the program in full standing must meet the following requirements.

1. A Bachelor of Science degree in any science or engineering discipline which includes:
 - a. a calculus sequence and differential equations;
 - b. a calculus-based physics sequence; and
 - c. two semesters of physical chemistry or thermodynamics and modern physics.

For example, the following would constitute adequate preparation:

MTH 261 Analytical Geometry and Calculus I
MTH 280 Analytical Geometry and Calculus II
MTH 303 Differential Equations
PHY 203 Foundations of Physics I
PHY 204 Foundations of Physics II
PHY 343 Thermodynamics **OR** CHM 506 Physical Chemistry I
PHY 375 Modern Physics **OR** CHM 507 Physical Chemistry I

Applicants with some deficiency in the courses listed in (1) above, may be admitted, but may have additional course work added to their program. This additional course work may not count toward their graduate degree.

2. Candidates for admission to the program are required to have a GPA of at least 3.00 on a 4.00 scale on the last 60 hours of course work.
3. Submission of Graduate Record Examination (GRE) scores from the General Test is required.
4. Three letters of reference.

Students who do not meet the GPA or GRE standards described in (3) and (4) above may be granted conditional admission to the program. Conditionally admitted students will be required to complete a minimum of nine hours of specified course work with a GPA of at least 3.00 to be advanced to full standing in the program.

Retention Requirements

The student is expected to demonstrate effective communication skills while enrolled in the program. Evaluation of communication skills will be done in accordance with the student's background. These abilities will be evaluated for graduate assistants based on their teaching performance and by the MAT 798 Seminar course.

For students who are not graduate assistants, evaluation will be done in the MAT 798 Seminar course. For the student who uses English as a second language, there may be additional requirements.

The student must also demonstrate progress toward graduation in the following ways:

1. satisfactory performance in the comprehensive exam, given approximately one semester before graduation;
2. maintenance of a 3.00 GPA in the core courses;
3. satisfactory progress in thesis research.

Degree Requirements Credit Hours: 31 Minimum

For the student who has not received a "C" or better in a quantum mechanics course or its equivalent prior to admission to the program, satisfactory completion of PHY 675 - Quantum Mechanics is required. (This course does **not** count towards the 31 hour total.)

Required Core - Credit Hours: 15

- MAT 640 - Thermodynamics of Materials
- MAT 651 - Introduction to Materials Science
- MAT 681 - Structure of Solids
- MAT 770 - Synthesis and Characterization of Advanced Materials
- MAT 792 - Introduction to Computational Materials Science

6-9 Hours, With at Least 6 Hours at the 700 Level or Above, Chosen From the Following:

- Any 600 or 700 level PHY or MAT course
- Interdisciplinary Courses approved by the department head for elective credit. Examples: CHM 770 - Chemical Kinetics or CHM 614 - Polymer Chemistry

Seminar. 1 Hour of Seminar

- MAT 798 - Seminar in Materials Science

Research. 6-9 Hours of Research

For both options, the student is required to give an oral presentation of his/her work to the Department.

- MAT 799 - Research in Materials Science

Thesis Option

Satisfactory completion of an approved thesis and an oral thesis defense to the student's faculty advisor and a committee of graduate faculty is also required. 6-9 hours of MAT 799 may be counted toward this degree under this option.

Non-Thesis Option

In extraordinary circumstances, a student may choose a non-thesis option with the permission of graduate committee and department head. This requires the completion of a minimum of 2 degree papers, each of which shall require an extensive paper or major creative work. 6 hours of PHY 799 may be counted toward this degree under this option.

Comprehensive Examinations

A passing grade on the comprehensive examination, taken approximately one semester before graduation.

Accelerated Master's Option

Undergraduate Physics majors may wish to enroll in the Accelerated Master of Science degree program in Materials Science. Students who successfully complete this program can obtain a Physics (with Materials Physics Option) Bachelor of Science degree and a Master of Science in Materials Science degree within five years.

This challenging option is for students who have a strong interest in becoming experts in electronic materials. This includes the fields of Solid State Physics, Photonics, Opto-electronics, Nanotechnologies, Electrical Engineering and computer Engineering.

While not essential for eventual admission to the program, it is strongly recommended that, as freshmen, students contact the department head for permission to become involved in the program. This will allow for appropriate advisement during the undergraduate years.

Students may be admitted to the program after completing 60 hours with a 3.00 cumulative GPA, including the physics core courses with a 3.50 cumulative GPA.

Students seeking this option must:

- Obtain admission to the Master of Science in Materials Science accelerated program by applying to the Graduate College prior to their senior year.
- Pass the Master of Science in Materials Science comprehensive examination in the first semester of their fifth year.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the courses towards the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, department head of the undergraduate program, and the dean of the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Nine hours of course work may be counted toward both the undergraduate and the masters degree. These courses are MAT 614, MAT 640, MAT 651, MAT 681 and PHY 692.

Students who successfully meet all the requirements would receive a Bachelor of Science degree in Physics at the end of their fourth year, and a Master of Science at the end of their fifth year.

Mathematics, MS

Entrance Requirements

Students seeking admission to the Master of Science program in mathematics must meet the general Graduate College requirements for admission as degree-seeking students. In addition, students must have the following.

1. Students must have credit for MTH 503 Advanced Calculus; MTH 532 Abstract Algebra; MTH 540 Statistical Theory I, or equivalent courses.
2. Students must have a GPA, in upper division mathematics courses beyond the first calculus sequence, of 3.00 or higher on a 4.00 scale.

Students who do not meet conditions 1 and 2 above may be admitted conditionally. Deficiencies must be made up with B grades or above in courses approved by the mathematics department. Credit in such courses will not count toward the total hours required for the Master of Science in mathematics.

Degree Requirements Credit Hours: 32 Minimum

A Minimum of 18 Semester Hours

of 700 level mathematics courses (except MTH 796). At least one of the following four courses must be completed:

Students planning to continue to a PhD degree are strongly advised to take the analysis and algebra sequences.

- MTH 702 - Real and Abstract Analysis
- MTH 732 - Abstract Algebra II
- MTH 722 - Theory of Ordinary Differential Equations II
- MTH 742 - Statistical Inference II

Mathematics Electives

From 4 to 15 elective hours in mathematics, dependent upon hours of research and other electives.

Related Electives

A maximum of 6 hours of elective courses in fields related to mathematics may be taken with the approval of the student's advisor.

Research Requirements

1-6 semester hours of course work from MTH 791, MTH 792, MTH 798, or MTH 799, but a maximum of 6 semester hours may be applied toward the requirement for the MS degree. This requirement will be met in one of the following ways:

- a. *Option I:* Completion of a satisfactory thesis in the candidate's discipline. Thesis credit shall be no more than 6 semester hours of the minimum 32 hours required for a master's degree.
- b. *Option II:* Completion of a minimum of one seminar paper (MTH 791). This requires writing a paper and presenting it to the department.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted.

Accelerated Master's Option

The Accelerated Master's Program option in Mathematics provides an opportunity for outstanding undergraduate students to begin their graduate course work during their senior year. To be eligible to apply for admission to this program, the student must have completed at least three of the courses MTH 333, MTH 503, MTH 532, and MTH 540; have a GPA of 3.5 or higher in all mathematics courses numbered MTH 261 or higher. An eligible student may apply for admission during the second semester of the junior year.

If accepted into the accelerated program, up to a maximum of 9 hours of 600/700 level mathematics courses taken after admission into the program may be given credit for both undergraduate and graduate programs. The courses MTH 603, MTH 631, and MTH 640 will not be given credit in the graduate program.

A student is fully admitted to the Graduate College upon completion of the requirements for the baccalaureate degree. All requirements for the master's program should be met for graduation from the master's program.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, department head of the undergraduate program, and the dean of the Graduate college. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Natural and Applied Science, MNAS

Program Description

The Master of Natural and Applied Science is designed to provide those working in an environment where scientific knowledge is a priority, such as science teaching and scientific applications, the opportunity to expand their knowledge and experiences consistent with their professional goals and objectives through an interdisciplinary program of study in the natural and applied sciences. The curriculum will consist of formal courses in one or more areas of concentration, professional advisement, graduate seminar or research options (e.g., master's thesis), as well as incorporating the candidate's background, goals, and objectives.

Program Objectives

1. To increase both the depth and breadth of knowledge in one or more of the areas in natural sciences for understanding and appreciation of the interdisciplinary nature of science.
2. To provide advanced training and education for expanding current scientific knowledge and capabilities.
3. To provide a base of knowledge or enhancement in an area of natural science outside an original field of study.

Admission Requirements

In order to be considered for admission, students must meet the following requirements. These are minimum requirements; acceptance into the program is on a competitive basis.

1. The student must have a bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. The student must have a GPA of 3.00 or higher on a 4.00 scale for the last 60 hours of course work required for the undergraduate degree.
3. The student must submit a Statement of Interest and at least two Letters of Recommendation.
4. International applicants are also required to submit a score of not less than 79 on iBT or a comparable score of 6.0 on IELTS TOEFL.
5. The student must have an undergraduate background of at least 20 semester hours in the natural and applied sciences. Students may be required to meet course prerequisites for their emphasis areas. Undergraduate courses will not be credited as course requirements for the master's degree.

Graduate Assistantships

A limited number of teaching assistantships (TA) may be available, awarded on a competitive basis. Applicants should have all application materials submitted by March 1 (fall assistantships) or October 1 (spring assistantships) to ensure being considered for a TA position. GRE General Test scores are required and will be considered as part of the awarding process. A minimum combined score of 290 on the verbal and qualitative sections of the GRE is required to be considered for an assistantship.

Degree Requirements (Minimum of 32 Hours)

1. **Advisory Committee.** Initially, each student will be advised by the departmental coordinator of graduate studies from the student's primary emphasis area. As soon as possible, the student will select a graduate faculty member from that department to chair a graduate advisory committee consisting of at least three faculty members that includes a faculty member from the student's second area of concentration. This committee will supervise the remainder of the student's program. Some departments may require that an advisory committee chair be identified prior to acceptance into the program; applicants should contact the department of the primary emphasis area.
2. **Program of Study.** This unique interdisciplinary masters program requires more than one area of concentration. Each individualized program will be structured by the advisory committee in consultation with the student. The academic background, professional experience, academic objectives and personal needs will be considered in establishing the individual's program.

Students may select areas of primary emphasis in the following departments in the College of Natural and Applied Sciences: Biology; Chemistry; Computer Science; Geography, Geology and Planning; Mathematics; and Physics, Astronomy and Materials Science; and in the Darr College of Agriculture. In special cases, a "primary emphasis" may be a science topic that is interdisciplinary in itself (for example, Environmental Science), and the relevant course work include more than one department; such a program of study must be approved by the student's Advisory Committee and program director. Students will select a second area of concentration from the above listed academic units or from the College of Business (COB) if the student is admitted to the PSM option. With approval of the Advisory Committee and program director, other possible outside areas may be pursued, such as education. This second area of concentration may also be inherently interdisciplinary as long as it is distinct from the primary area.

3. **Course Requirements.** The student must select a primary emphasis area consisting of at least 16 hours of courses selected from one department in the College of Natural and Applied Sciences listed above. The student must also select 9-16 hours of graduate courses outside the primary area approved by the student's advisory committee. In total, the student must complete at least 32 hours of course work, of which at least 16 must be in courses open only to graduate students (numbered 700 or above).
4. **Grade Point Average.** A GPA of at least 3.00 on a 4.00 scale for all graduate work at Missouri State and course work transferred from other institutions is required.
5. **Research Requirements.** A student will be required to complete one of the following research requirements.

Thesis Option: The Thesis option requires the completion of a research thesis supervised by the student's advisory committee. The thesis shall be approved by the advisory committee and by the Dean of the Graduate College before the degree is granted. A maximum of six hours of thesis credit can be applied toward the minimum hours required for the master's degree.

Non-Thesis Option: The Non-Thesis option requires the completion of a minimum of one semester course which shall require an extensive research paper or creative work. The student's advisory committee must approve the final research paper and complete a Seminar Report form that is submitted to the academic department chosen as the major area of concentration and subsequently to the Graduate College for the approval of the Dean.

Internship Option: The Internship option requires the completion of internship with a discipline-related business, non-profit organization, or government agency (480 hours). This must include an extensive project that is approved and supervised by the student's on-site mentor and the departmental advisory committee. A maximum of six hours of Internship credit can be applied toward the 32 hours required for this degree. Students in the MNAS/PSM must choose the Internship research requirement.

6. **Comprehensive Examination.** After most of the course work has been completed, and upon approval of the advisory committee, a written comprehensive examination will be administered and evaluated by the advisory committee. This examination must be passed by the candidate before a degree will be given.
7. **Time Limit.** The student must complete all requirements within an eight-year period (exclusive of the time spent in the United States Armed Forces).

The Professional Science Master Option

A student is eligible to receive the Professional Science Master (PSM) option if he/she is admitted into the MSNA/PSM option, completes the internship option of the research requirements and completed three courses from the following seven offered through the College of Business: ACC 600, FIN 600, ITC 600, LAW 600, MGT 600, MKT 600, QBA 600. The PSM designation is approved and recognized under the MNAS degree program by the Council of Graduate Schools.

Accelerated Master's Degree Option

Eligible Missouri State University students in a major in the College of Natural and Applied Sciences may apply for preliminary acceptance into the Master of Natural and Applied Science program after admission requirements for the accelerated master's option have been satisfied. If accepted, graduate courses chosen from approved 600-level courses or higher may be counted toward both the graduate and undergraduate degrees, with a maximum of 12 credit hours. This option offers an opportunity for CNAS majors whose goals, academic capabilities, and career planning include graduate work, to complete the requirements for the master's degree in less time than would otherwise be possible. Contact the MNAS Program Director for further information and guidelines.

All requirements for the implemented undergraduate program should be met for graduation from the undergraduate degree program. A student may fully be admitted to the Graduate College upon completion of the requirements for the baccalaureate degree. All requirements for the implemented master's program should be met for graduation from the master's degree program.

A student must be admitted into the Accelerated Master's Degree Program at Missouri State University in order to begin taking graduate course work for dual credit. Admission requires approval from the Graduate Program Advisor, Department Head of the undergraduate program, and the Dean of the Graduate College. Students admitted into the Accelerated Master's Degree program will not be fully admitted into the Graduate College until completion of their undergraduate degree and fulfillment of all other requirements for admission to the Graduate College (such as the Graduate Record Examination). Student should be awarded the bachelor's degree upon completion of the minimum of 120 hours of combined graduate and undergraduate course work and degree specific requirements.

Admission Requirements for the Accelerated Master's Option

1. Junior standing and a GPA 3.25 or better.
2. A supportive recommendation from the student's undergraduate advisor.
3. Acceptance of applicant by a graduate faculty member who agrees to serve as the student's graduate mentor.

Secondary Education: Biology Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Biology Requirements

Biology courses that includes a minimum of 3 hrs in courses numbered 700 or above to **total 15 hours**.

Secondary Education: Chemistry Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Chemistry Requirements

Chemistry course work including a minimum of 3 hours in courses numbered 700 or above to **total 15 hours**.

Secondary Education: Earth Science Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Prerequisite Earth Science Requirements

A minimum of 24 hours in Science and/or Mathematics.

Earth Science Requirements

- GLG 701 - Geosystems
- GLG 702 - Geology for Secondary Teachers II
- Additional Geography and Geology course work **Credit Hours: 9**

Total Hours Required: 15

Secondary Education: Geography Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Prerequisite Geography Requirements

A minimum of 24 hours in the social sciences including Economics, Geography, History, Political Science, Psychology, and Sociology.

Geography Requirements

- GRY 700 - Cultural Geography for Secondary Teachers I
- GRY 703 - Cultural Geography for Secondary Teachers II
- Additional Geography course work **Credit Hours: 9**

Total Hours Required: 15

Secondary Education: Mathematics Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Prerequisite Mathematics Requirements

- MTH 315 or equivalent; **AND**
- MTH 302 or equivalent

Mathematics Requirements

Students must take 15 hours of Mathematics courses for the emphasis area as follows.

- MTH 710 - Contemporary Mathematics for Secondary Teachers
- Additional Course work in Mathematics **Credit Hours: 12**

Accelerated Master's Option

The accelerated master's program option in Secondary Education, Mathematics provides an opportunity for outstanding undergraduate students to begin their graduate course work during their senior year. To be eligible to apply for admission to this program, the student must have completed MTH 302, MTH 333, and MTH 460; and have a GPA of 3.5 or higher in all mathematics courses numbered MTH 261 or higher. An eligible student may apply for admission during the second semester of the junior year. If accepted into the accelerated program, up to a maximum of 9 hours of coursework may be double counted in both the undergraduate and graduate programs. Specifically the courses that can be double counted in both programs are MTH 603 and MTH 631 and one from the list: MTH 611, MTH 636, MTH 640 and MTH 667. A student is fully admitted to the Graduate College upon completion of the requirements for the baccalaureate degree. All requirements for the master's program

should be met for graduation from the master's program. Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the course toward the masters degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, department head of the undergraduate program, and the dean of the Graduate college. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Secondary Education: Natural Science Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Natural Science Prerequisite and Requirements

In this option, students complete a minimum of 15 hours with course work selected from two of the following disciplines: Biology, Chemistry, Geography and/or Geology, Mathematics, and Physics.

A minimum of 3 hours of course work numbered 700 or above must be included.

The prerequisite requirements are those listed in the departmental statements of both selected academic areas of emphasis.

- Courses from one of the above disciplines **Credit Hours: 9**
- Courses from a second of the above disciplines **Credit Hours: 6**

Total Hours Required: 15

Secondary Education: Physics Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

Physics Requirements

Physics course work with a minimum of 3 hours in courses numbered 700 or above to **total 15 hours**.

Certificates

Applied Geophysics Certificate

Program Description

The courses required and recommended for the Graduate Applied Geophysics certificate are already offered by the School of Earth, Environment and Sustainability, Department of Physics, Astronomy and Materials Science, and Department of Mathematics

Admission Requirement

Must have a bachelor's degree from an accredited university.

Program Requirements - Credit Hours: 12

Note: Students completing a major other than Geology may request a waiver of the GLG 340 prerequisite requirements for GLG 690 and GLG 691.

- GLG 690 - Applied Geophysics
- GLG 691 - Seismic Data Processing

Select 6 hours from:

- GLG 673 - Engineering Geology
- GLG 674 - Petroleum Geology
- GLG 794 - Global Tectonics
- MTH 607 - Introduction to Partial Differential Equations
- MTH 648 - Applied Time Series Analysis
- PHY 692 - Computational Methods and Data Analysis in Physical Sciences
- MAT 792 - Introduction to Computational Materials Science

Data Analysis in Applied Sciences Certificate

Program Description

The Data Analysis in Applied Sciences Graduate Certificate is a 12-credit hour program designed to provide advanced proficiency in the concepts and applications of data analysis in the sciences.

Admission Requirement

Bachelor's degree with a GPA of 2.75 or higher.

Required Courses - Credit Hours: 12

- CSC 612 - Advanced Database System Concepts
- CSC 630 - Introduction to Data Science
- **OR**
- CSC 635 - Data Mining

Select six hours from:

- GEO 662 - Internet Geospatial Science
- GEO 669 - Landscape Analysis
- GRY 608 - The Philosophy of Geosustainability
- MAT 792 - Introduction to Computational Materials Science
- PHY 692 - Computational Methods and Data Analysis in Physical Sciences

Data Science Certificate

Program Description

The Graduate Certificate in Data Science is a 12-credit hour program designed to provide advanced knowledge and skills in the field of data science, including data analysis, data mining, data visualization, statistical modeling, and feature engineering for machine learning.

Admission Requirements

1. Bachelor's degree with a GPA of 2.75 or higher.
2. CSC 232 or equivalent.

Course Requirements Credit Hours: 12

Choose 4 courses from the following:

- CSC 630 - Introduction to Data Science
 - CSC 635 - Data Mining
 - CSC 735 - Data Analytics
 - CSC 736 - Machine Learning
 - CSC 737 - Deep Learning
 - MTH 640 - Statistical Theory I
- OR**
- MTH 645 - Applied Statistics

Subject to Departmental approval may be substituted for a course in the above list

- CSC 612 - Advanced Database System Concepts
- CSC 798 - Graduate Project in Computer Science

Completion Requirements

Attain a combined course GPA of at least 3.00 in Data Science certificate courses.

Environmental Monitoring and Sampling Certificate

Program Description

This certificate program is designed to provide graduate-level education in environmental monitoring and sampling including environmental application of geochemistry, water chemistry, sediment quality, groundwater and karst, and geophysical methods to sample and characterize soils, sediments and water to assess the degree and amount of potential contamination. It is anticipated that this program would be attractive to working professionals in such organizations as the US Geological Survey, the Missouri

Department of Natural Resources, Environmental Consulting Companies, Non-Profit environmental organizations and Earth science high school educators.

Admission Criteria

The Environmental Monitoring and Sampling certificate program is open to all persons holding a BS, BA, MS, or PhD, degree. Student must, of course, satisfy all prerequisites for any courses they take in the program; or they must obtain instructor approval to waive any prerequisites. Once admitted to the program, the student must take a minimum of four courses as designated and approved by the program director and must have an average cumulative grade point average of 3.00 or better to receive the certificate.

Students who complete the four-course requirement for the certificate with a grade of B or better in each course may be admitted directly to the respective MS program in Geography and Geology if they so choose. This admission does not waive the necessity for students to take required prerequisites for other required courses that are part of the MS degree. The certificate credits taken will count toward the requirements for the MS degree.

Program Requirements - Credit Hours: 12

Select 2 of the Following 3 Required Courses: Credit Hours: 6

- GLG 680 - Geochemistry
- GLG 782 - Contaminant Hydrology
- GLG 690 - Applied Geophysics

Select 2 Electives From the Following List: Credit Hours: 6

Other courses approved by the program coordinator and the departmental Director of Graduate Studies may be substituted for any of the above listed courses on a case-by-case basis. However, the certificate program coordinator (in consultation with the departmental Director of Graduate Studies) must approve the substitution prior to the student enrolling in a course.

- GLG 647 - Water Resources
- GLG 672 - Geohydrology
- GLG 673 - Engineering Geology
- GRY 731 - Environmental Assessment
- CHM 660 - Chemistry of Environmental Systems: Water and Land
- GEO 770 - Advanced Field and Laboratory Methods

Completion requirements

Students must have an overall grade point average of 3.00 for completion of certificate program.

Geospatial Information Sciences Certificate

Program Description

This certificate program is designed to provide graduate-level education in Geospatial Sciences including such focus areas as Geographic Information Systems, Internet Mapping, and Remote Sensing. It is anticipated that this program would be attractive to students in other MSU graduate programs such as Anthropology, Biology and Criminology as well as to working professionals in such organizations as the United States Geological Survey, the National Geospatial-Intelligence Agency, the United States Army Corps of Engineers, the U.S. Forest Service, the U.S. Fish and Wildlife Service, the National Park Service and numerous other federal, state and local agencies involved in the management of natural, cultural and historical resources.

Admission Criteria

The Geospatial Information Sciences Certificate program is open to all persons holding a BS, BA, MS, or PhD degree. Students must, of course, satisfy all prerequisites for any courses they take in the program; or they must obtain instructor approval to waive specific prerequisites. Once admitted to the program, the student must take a minimum of four courses as designated and approved by the program coordinator and must have an average cumulative grade point average of 3.00 or better to receive the certificate.

Students who complete the four-course requirements for the certificate with a grade of B or better in each course may be admitted directly to the MS program in Geospatial Sciences if they so choose. Students must go through the full application process for the MS degree. This admission does not waive the necessity for students to take required prerequisites for other required courses that are part of the MS program. The certificate credits taken will count toward the requirement for their MS degree.

Curriculum Credit Hours: 12

In consultation with the program coordinator, the student should select twelve hours of GEO courses numbered 651-699 or 755.

Completion Requirements

Students must have an overall grade point average of 3.00 for completion of the certificate program.

Petroleum Geology Certificate

Program Description

The Certificate in Petroleum Geology provides students the opportunity to develop and demonstrate competencies that are in demand among employers in the petroleum and gas industry.

Admission Criteria

A degree in an appropriate undergraduate program and a grade point average of 2.75 is required for admission.

Required Courses - Credit Hours: 12

- GLG 670 - Principles of Stratigraphy
- GLG 672 - Geohydrology
- OR**
- GLG 680 - Geochemistry

- GLG 674 - Petroleum Geology
- GLG 690 - Applied Geophysics
- OR
- GLG 691 - Seismic Data Processing

Planning and Development Certificate

Program Description

This certificate program is designed to provide graduate-level education in Community and Regional. It is anticipated that this program would be attractive to students in other MSU graduate programs in the sciences and social sciences as well as working professionals. Planning concepts and theory are especially useful for students pursuing degrees in Public Administration, Political Science, and Geospatial Sciences. The Community and Regional Planning certificate program emphasizes concepts and theories surrounding land use assessment, urban design, neighborhood planning, transportation planning, and tourism and planning and development.

Admission Criteria

The Community and Regional Planning Certificate program is open to all persons holding a BS, BA, MS, or PhD degree. Students must, of course, satisfy all prerequisites for any courses they take in the program; or they must obtain instructor approval to waive specific prerequisites. Once admitted to the program, the student must take a minimum of four courses as designated and approved by the program coordinator and must have an average cumulative grade point average of 3.00 or better to receive the certificate.

Completion Requirements

Students must have an overall grade point average of 3.00 for completion of the certificate program.

Required Courses Credit Hours: 13

Other courses approved by the program coordinator may be substituted for any of the above listed courses on a case-by-case basis. The certificate program coordinator must approve the substitution prior to enrolling in any course.

- PLN 671 - Land Use Planning
- PLN 672 - Community Planning Practicum
- Six hours from PLN courses above 600 or 700 level. **Credit Hours: 6**

Completion Requirements

Students must have an overall grade point average of 3.00 for completion of the certificate program.

Science Content Certificate

Program description

The graduate certificate in science content provides an 18 hour graduate-level experience for students who are interested in deepening or broadening their understanding of science, and may satisfy Missouri Department of Higher Education content requirements for teaching dual-credit courses. Students choose a variety of science courses to meet their goals in consultation with an advisor.

Admission criteria

To be considered for the program, a student must have a 3.00 grade point average in a major in biological science, chemistry, geological sciences, physics or a closely related field.

Accelerated Option

Eligible Missouri State University students may apply for acceptance into an accelerated option for the graduate certificate in science content. This option offers science majors whose goals, academic capabilities, and career planning include teaching science an opportunity to complete the requirements for the graduate certificate in less time than would otherwise be possible.

Requirements include completion of at least 60 undergraduate hours in a science major with an overall GPA of 3.25 and a GPA within the major of at least 3.25.

If accepted, graduate courses chosen from approved 600-level courses may be counted toward both the graduate certificate and the undergraduate degree, with a maximum of 12 credit hours. Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the courses toward the graduate certificate, an undergraduate student must be accepted into the accelerated program and complete a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the change of schedule period for the course(s). See the "Graduate College" section for further information.

Program requirements (18 Hours)

Complete an area of specialization in one of the following science disciplines:

Advanced biology

- 18 hours of biology courses at the 600 and 700 level
- Courses will be chosen to meet the student's specific goals in consultation with the advisor

Advanced chemistry

- 18 hours of chemistry courses at the 600 and 700 level
- Courses will be chosen to meet the student's specific goals in consultation with the advisor

Advanced Earth science

- 18 hours of geology and physical geography courses at the 600 and 700 level
- Courses will be chosen to meet the student's specific goals in consultation with the advisor

Advanced physics

- 18 hours of physics courses at the 600 and 700 level
- Courses will be chosen to meet the student's specific goals in consultation with the advisor

Software Engineering Certificate

Program Description

The Software Engineering Graduate Certificate is a 12-credit hour program designed to provide knowledge and practical skills for quality software development.

Admission Requirements

1. Bachelor's degree with a GPA of 2.75 GPA or higher.
2. CSC 232 or equivalent.

Required Courses Credit Hours: 12

- CSC 750 - Advanced Topics in Software Engineering
- CSC 755 - Software Testing and Quality Assurance

Choose One Course From the Following: Credit Hours: 3

- CSC 640 - Introduction to Artificial Intelligence
- CSC 667 - Mobile Computing Applications
- CSC 746 - Human Computer Interaction

Choose One Course From the Following: Credit Hours: 3

- CSC 615 - Advanced Internet Programming
- CSC 665 - Computer Networks
- CSC 765 - Ubiquitous Computing and Internet of Things

Sustainability Certificate

Program Description

Sustainability initiatives are becoming ubiquitous in society today for many corporations and government agencies at both national and international scales. The purpose of this graduate-level certificate is to provide an opportunity for either existing professionals or emerging professionals to grasp the multidisciplinary nature of sustainability as both a theoretical and applied field. A single required course, GRY 608 serves as the foundation for philosophical thought and the history of sustainability as it has evolved to what it is in today's world. The equal focus on economics, environment, and society, grounds the student in a balanced analysis and application of the ideas of sustainability across different Missouri State University departments. In total, the student should emerge from the certificate program with a renewed and more complete understanding of sustainability. This

should assist them in their future development whether it is moving to further graduate work or giving them the skills they can apply in their existing careers.

Admission Requirements

All Missouri State University requirements granting admission to graduate certificate programs.

Certificate Course Requirements Credit Hours: 12

- GRY 608 - The Philosophy of Geosustainability

Select One Course From Economics Pillar Credit Hours: 3

- MGT 747 - International Management
- ECO 620 - History of Economic Thought
- ECO 640 - Environmental, Resource, and Energy Economics
- GRY 610 - Applications in Sustainable Geotourism

Select One Course From Environmental Pillar Credit Hours: 3

- GRY 645 - Global Environmental Change
- GRY 731 - Environmental Assessment
- BIO 602 - Sustainability Science in Practice

Select One Course From Society Pillar Credit Hours: 3

- ANT 645 - Cultural Resource Management
- PLN 605 - Social Planning
- LAW 637 - Environmental Regulation
- PLS 673 - Policy Analysis
- PLS 763 - The Policy Process

Certificate Requirements

Students must have an overall GPA of 3.00 for completion of the program.

Reynolds College of Arts, Social Sciences and Humanities

Academic Units

Schools

School of the Arts (Department of Art and Design, Department of Music, Department of Theatre and Dance)

School of Communication (Department of English, Department of Communication, Media, Journalism and Film)

School of Criminology and Criminal Justice

School of Defense and Strategic Studies (Department of Military Science)

School of Humanities and Social Sciences (Department of History, Department of Languages, Cultures and Religions, Department of Political Science and Philosophy, Department of Sociology, Anthropology, and Gerontology)

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Master's Programs

Applied Second Language Acquisition, MASLA

Program Description

The Master of Applied Second Language Acquisition (MASLA) is a flexible degree program that combines training in topics pertinent to second language acquisition theory and practice, including linguistics, research and teaching methods, and materials and assessment design, with advanced discipline-specific coursework focused on the areas of TESOL, Spanish and French. It is designed for anyone with an interest in teaching one of these languages, including currently certified teachers. MASLA graduates will be well qualified to teach languages in a variety of settings, both in the United States and abroad.

Admission Requirements

In addition to the general requirements outlined in the Admission to Graduate Study section of the Graduate Catalog, applicants for admission to the MASLA program must fulfill the following requirements:

1. Hold a bachelor's degree in English, French, or Spanish, or a bachelor's degree in another field and significant course work and/or experience relating to the focus areas of this program (linguistics, language teaching, foreign language proficiency, etc.);
2. Have a minimum overall GPA of 3.00 in all previous university-level course work;
3. Submit a completed Missouri State University Graduate Application;

All candidates must apply to one of the following language tracks:

Teaching English to Speakers of Other Languages (TESOL)

Candidates wishing to pursue the TESOL track must submit the following:

- A Graduate Assistantship Application if the prospective student would like to be considered for this award (submitted directly to the English department);
- A personal statement (a 200- to 250-word description of the reasons and goals behind the applicant's interest in graduate studies in TESOL);
- At least two letters of recommendation from individuals able to speak of the applicant's academic achievements and potential;
- A writing sample (a 10-12 page academic paper written in English).

French

Candidates wishing to pursue the French track must submit the following:

- A Graduate Assistantship Application if the prospective student would like to be considered for this award (submitted directly to the Languages, Cultures, and Religions Department);
- A personal statement in the target language (an essay of at least 350 words addressing the reasons and goals behind the applicant's interest in graduate studies in French language learning and teaching);
- At least two letters of recommendation from individuals able to speak of the applicant's academic achievements and potential;
- A rating of at least Intermediate High on the ACTFL Writing Proficiency Test dated within the past three years;
- A rating of at least Intermediate High on the ACTFL Oral Proficiency Test dated within the past three years.

Spanish

Candidates wishing to pursue the Spanish track must submit the following:

- A Graduate Assistantship Application if the prospective student would like to be considered for this award (submitted directly to the Languages, Cultures, and Religions Department);
- A personal statement in the target language (an essay of at least 350 words addressing the reasons and goals behind the applicant's interest in graduate studies in Spanish language learning and teaching);
- At least two letters of recommendation from individuals able to speak of the applicant's academic achievements and potential;
- A rating of at least Intermediate High on the ACTFL Writing Proficiency Test dated within the past three years;
- A rating of at least Intermediate High on the ACTFL Oral Proficiency Test dated within the past three years.

Applicants will be notified once their application is complete. Students who do not meet GPA and/or language proficiency requirements but who show high promise may be admitted conditionally. As conditions of admission, they may be required to take extra courses to make up deficiencies (including weaknesses in writing) or they may have other requirements stipulated.

Transferred Courses

Candidates may transfer up to nine hours in course work taken at other regionally accredited institutions into the MASLA program. However, any decision regarding credit for transferred courses is subject to the terms of the Transfer Credit policy outlined in the Graduate Catalog.

Double Counting of Course Work

MASLA student may double count toward the MASLA all 15 hours of course work taken as part of the Graduate Certificate in TESOL. Up to nine hours of course work may double count toward the MASLA and the M.A. in English or Writing.

Teacher Certification/TESOL Endorsement

The MASLA is not a teacher certification program and does not contain a certification or endorsement option. One of the purposes of the program is to allow presently certified foreign language teachers to pursue a master's degree in their fields. Prospective MASLA candidates who are not certified to teach in Missouri but who wish to seek certification in Spanish or French or to add an ELL endorsement to an existing certification should speak with an advisor in the Department of English or in the Department of Languages, Cultures, and Religions.

Accelerated Master's Degree Option

Missouri State University Bachelor of Science in Modern Language majors who meet all MASLA admissions requirements may apply for preliminary acceptance into the program. If accepted, they may apply up to 9 hours in graduate course work toward both their undergraduate degree and the MASLA.

Accelerated option students may only count one MASLA core course (LCR 691) or LCR 710 toward both degree programs. The other two courses must be language track required or elective courses with the same course prefix as their BSML concentration. Accelerated master's students must use a mixed-credit permission form to obtain approval for the courses they wish to count toward both degree programs.

Students interested in the accelerated master option should meet with their undergraduate advisor and with the MASLA program director to determine eligibility and apply during the second semester of their junior year.

Program Requirements - Credit Hours: 33

In consultation with the program director and faculty advisors, all degree candidates complete the 15-hour Second Language Acquisition core and one of the three 12-hour language tracks, for a total of 27 hours of coursework. a 6-hour research requirement brings the total program hours to 33.

Second Language Acquisition Core

All candidates must complete the following 15-hour core:

- ENG 691 - Linguistic Theory
OR
- LCR 691 - Principles of Linguistics
- ENG 695 - Principles of Second Language Acquisition
OR
- LCR 695 - Principles of Second Language Acquisition
- ENG 700 - Introduction to Research Methods in English
OR
- LCR 710 - Research Methods in Second Language Acquisition *
- ENG 605 - Methods in Teaching English to Speakers of Other Languages (TESOL)
OR
- LCR 700 - Advanced Language Teaching Methods and Technology *
- ENG 696 - Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL)
OR
- LCR 706 - Materials and Assessments in Foreign Language Teaching *

Note:

*Candidates pursuing the TESOL track are encouraged to enroll in the ENG-coded classes, whereas those pursuing tracks in French or Spanish should enroll in the MCL-coded classes. However, with advisor approval, candidates may take either ENG- or MCL-coded classes in the core regardless of the track. Students seeking the Missouri K-12 ELL endorsement must enroll in the ENG-coded core courses. MCL-coded courses will not count toward ELL certification.

Language Track

All candidates must complete one of the following 12-hours language tracks:

Teaching English to Speakers of Other Languages (TESOL)

Complete the Following 6 Hours:

- ENG 688 - Sociolinguistics for Language Teaching
- ENG 690 - Grammatical Analysis

Complete 6 Hours in Electives From the Following:

- ENG 793 - Seminar: Linguistics
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 689 - Studies in Linguistics
- 700-level ENG course Any advisor-approved 700-level English course in literature, composition, rhetoric, foreign language teaching, or literacy and special education. **Credit Hours: 3**

French

Complete the Following 6 Hours:

- FRN 690 - Advanced French Grammar

- FRN 725 - Seminar in Francophone Literature and Culture

Complete 6 Hours in Electives From the Following:

- ENG 688 - Sociolinguistics for Language Teaching
- FRN 624 - Advanced Topics in Francophone Linguistics
- LCR 688 - Sociolinguistics for Language Teaching
- LCR 650 - Advanced Study Abroad
- LCR 697 - Topics for Teachers of Foreign Languages
- LCR 701 - Applied Foreign Language Practicum
- LCR 724 - Seminar in Linguistics for Foreign Languages
- LTC 660 - Diversity Issues in Literacy and Content Area Instruction
- 700-level FRN or MCL course Any advisor-approved 700-level FRN or MCL course **Credit Hours: 3**

Spanish

Complete the Following 6 Hours:

- SPN 690 - Advanced Spanish Grammar
- SPN 725 - Seminar in Hispanic Literature and Culture

Complete 6 Hours in Electives From the Following:

- ENG 688 - Sociolinguistics for Language Teaching
- LCR 688 - Sociolinguistics for Language Teaching
- LCR 650 - Advanced Study Abroad
- LCR 697 - Topics for Teachers of Foreign Languages
- LCR 701 - Applied Foreign Language Practicum
- LCR 724 - Seminar in Linguistics for Foreign Languages
- SPN 610 - Advanced Translation
- SPN 624 - Advanced Topics in Hispanic Linguistics
- 700-level SPN or MCL course Any advisor-approved 700-level SPN or MCL course **Credit Hours: 3**

Research Requirement

All candidates complete a 6-hour research requirement. They may either write a thesis and enroll in 6 thesis supervised hours (ENG 799 or LCR 799) or complete 1 degree paper and 6 hours of advisor-approved electives. For non-TESOL track candidates, one of those courses must be LCR 798. Further details regarding the procedures for proposing and writing degree papers are available in the MASLA Student Handbook.

Examination Requirement/Comprehensive Examination

All candidates will take a comprehensive examination consisting of two sections, one focused on issues related to second language acquisition theory and practices and another relating to their chosen language track. Further details regarding the content and format of the comprehensive are available in the MASLA Student Handbook.

Language Proficiency Requirement

TESOL Track Candidates. TESOL track candidates must provide evidence of intermediate-level proficiency in a language other than English. The language proficiency requirement may be met through one of the following options: (a) completion of 12 hours of undergraduate coursework in a foreign language with at least a C average; (b) completion of the second intermediate foreign language college course with a grade of C or higher; or (c) passing a reading competency test equivalent to the level of the second intermediate foreign language college course administered by the Department of Languages, Cultures, and Religions. A TESOL track candidate whose native language is not English will be considered to have met the language requirement. French and Spanish Track Candidates. French and Spanish track candidates must demonstrate speaking and writing proficiency consistent with the Advanced level on the ACTFL scale by presenting official ratings of at least Advanced Low on the ACTFL OPI and WPT dated within two years of their anticipated graduation date or through successful completion of LCR 735.

Art Education, MAE

Program Description

This program provides artists, art teachers, and art education students an opportunity to upgrade their preparation in both professional education and subject matter areas appropriate to their teaching fields. The main goal of the program is to give an in-depth study of today's art education world and a powerful set of professional skills to deploy in the field of teaching.

Most of the prospective students for this proposed program are currently practicing teachers who will see salary increases from continuing their education which is in the economic best-interest of the state of Missouri.

The specific curriculum is designed for students from various areas to have a firm understanding of current issues in the art education world, discussing its structures, organizations, and essential protocols. Students may select either a studio emphasis or a written thesis to provide evidence of competencies and program expectations. Program is 36 credit hours. Students will work with the area advisor to develop the program of study, which will be developed according to the needs and interest expressed by the advisee. This program is offered in a two-year cohort model.

Admission Requirements

Traditional Master of Art Education

1. Applicants are required to have a bachelor's degree in art or art education from a college or university accredited by agencies recognized by Missouri State University.
2. Applicants must submit a scholarly writing sample or samples of studio practice and a statement of purpose.
3. A completed Missouri State University Graduate Application
4. Admission decisions will be made by a committee of Graduate Faculty in the Department of Art and Design.

Accelerated Master of Art Education

The Department of Art and Design at Missouri State University will offer undergraduate art education students the opportunity to take graduate classes up to 9 hours of mixed credit.

1. Applicants must be of junior standing and have a declared major in Art Education in the Department of Art and Design having completed 15 hours in the major department, including at least six hours at the 300-level or above, with a GPA in the major of 3.25 or better.
2. Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program and receive prior approval from the Director of Graduate Studies, the Department Head, and the Dean of the Graduate College.

3. Applicants must submit a scholarly writing sample or samples of studio practice and a statement of purpose.
4. Admission decisions will be made by a committee of Graduate Faculty in the Department of Art and Design.

All MSED (Master of Science in Education) hours with art focus from MSU are transferable. Applications will be notified by mail once their application is complete.

Degree Requirements Credit Hours: 36

A minimum of 36 hours of coursework is required. The course work distributed over 2 years.

Core Courses

Core Courses (Required of all students): 30

Thesis/Non-Thesis/Capstone/Internship: 6

- ART 606 - Historical Perspectives in Art Education
- ART 615 - Contemporary Curriculum and Pedagogy in Art Education
- ART 619 - Societal Influences in Art Education
- ART 720 - Introducing Art Criticism/Aesthetics/Culture
- ART 730 - Art Processes for Special-Needs Populations
- ART 740 - Artistic Practices I
- ART 745 - Artistic Practices II
- ART 761 - Educational Research Methodology
- ART 764 - Thesis Preparation in Studio I
- ART 765 - Thesis Preparation in Studio II
- ART 766 - Written Thesis Preparation I **AND**
- ART 767 - Written Thesis Preparation II
- OR**
- ART 788 - Exhibition Presentation **AND**
- ART 789 - Exhibition Presentation

Additional Degree Requirements

Students may select either a studio emphasis or a written thesis to provide evidence of competencies and program expectations. Students will work with the area advisor to develop the program of study, which will be developed according to the needs and interests expressed by the advisee:

- The advisee's formal training at the undergraduate level,
- The teaching assignment of the advisee (if applicable),
- Professional practices in which the advisee hopes to be involved in the future.

For the awarding of the Master of Art Education degree, the following is required:

- Satisfactory completion of all coursework, maintaining program enrollment with a GPA of 3.0 or above.
- Successful completion of the thesis presentation or exhibition presentation.
- The Comprehensive Examination must be passed by the candidate before a degree is awarded. Comprehensive examination can be in form of thesis defense or exhibition presentation. The exhibition or thesis must be approved by supervising faculty and graduate committee.
- All Missouri State University courses accepted to fulfill degree requirements must be at the 700 and/or 600-level in the emphasis area. Alternatives may be possible with approval of faculty.

Communication, MA

Entrance Requirements

1. The applicant must have received an undergraduate degree from a regionally accredited college or university.
2. The applicant must hold an undergraduate degree with an academic major in communication (speech or mass communication, journalism, rhetorical studies) or a related discipline (e.g., anthropology, English, history, psychology, or sociology), or have completed a minimum of 15 hours of undergraduate course work in communication to demonstrate an adequate background for graduate work in the field of communication. Additional undergraduate courses may be required as prerequisites to the student's graduate program. Prerequisites are determined by the Department of Communication, Media, Journalism, and Film and relayed to the Graduate College as conditions of admission.
3. The applicant must have attained a GPA of at least 3.00 on a 4.00 scale for the last 60 credit hours of academic work.
4. Applicants who do not meet the standard entrance requirements, but who show an indication of high promise, will be considered for admission on a case by case basis.
5. The applicant must submit a 500-700 word letter of application. This letter should address the following questions:
 - Why are you interested in pursuing a graduate degree in Communication?
 - Why did you choose to apply for graduate study in the Department of Communication, Media, Journalism, and Film at Missouri State University?
 - How does your background (educational and otherwise) prepare you for graduate study?
 - What professional goals do you hope this degree will help you achieve?
6. The applicant must submit at least two letters of recommendation, of which one is from an assistant professor, associate professor, or professor who has had the student in class. Applicants more than six years out of their bachelor's degree must submit a letter of recommendation from a supervisor or another person adequately qualified to evaluate the student's suitability for graduate study.
7. Acceptance decisions for fall semester will begin in early February. All application materials must be submitted by February 1.
8. Meeting the above entrance requirements does not guarantee admission to the Master of Arts in Communication. The decision to accept a graduate student is competitive and complex. It is based on multiple factors, only one of which is meeting the entrance requirements listed above.
9. All other University and Graduate College requirements for admission to a degree program will also apply. Please refer to the requirements given in this catalog.

Enrollment Requirements

To enroll in graduate courses in the Department of Communication, Media, Journalism, and Film, a student must satisfy one of the following two conditions:

1. Be admitted to a graduate program in Communication, **or**
2. Have permission to enroll into the Communication course from the Instructor of Record.

Degree Requirements Minimum Credit Hours: 33

Theory

Must complete 9 hours in Theory as follows:

- COM 701 - Introduction to Graduate Studies
- COM 702 - Communication Theory and Research

- COM 706 - Rhetorical Theory

Methodology

Must select two courses, 6 hours, in the Methodology of Inquiry:

- COM 712 - Quantitative Research Methods in Communication
- COM 714 - Qualitative Research Methods in Communication
- COM 716 - Rhetorical Criticism
- COM 718 - Applied Communication Research Methods

Additional Course Work

Students are required to complete a minimum of 18 additional hours selected by advisement and approved by the Graduate Director, consistent with their professional, educational, and/or personal objectives. No more than 9 hours may be selected from departments other than Communication, Media, Journalism and Film. It is possible to complete all 18 credits in the Department of Communication, Media, Journalism, and Film.

Teaching Assistants

In addition to the above listed requirements, anyone applying for a graduate assistantship in the Department of Communication, Media, Journalism, and Film must include a writing sample as part of the admission process. All graduate teaching assistants (TAs) must enroll in COM 710 during the first semester of their assistantship. See course description of COM 710 for additional information.

Research

Complete one of the following three research options.

Option I:

Completion of a thesis that is approved by committee, the Graduate Director and the Graduate College. The department further requires a public presentation of the thesis. A maximum of 6 credit hours of COM 799 may be used for the purpose of completing a thesis.

Option II:

Complete a seminar paper approved by a seminar paper advisor, a departmental committee on seminar papers, and the Graduate Director. The department further requires a public presentation of the seminar paper. A maximum of 3 credit hours of COM 796 may be used for the purpose of completing the seminar paper.

Option III:

Complete a professional project approved by a professional project advisor, a departmental committee on professional projects, and the Graduate Director. The department further requires a public presentation of the professional project. A maximum of 3 credit hours of COM 796 may be used for the purpose of completing the professional project.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted.

Non-class Instruction

A maximum of eight credit hours of non-class instruction (COM 795 - Communication Internship, COM 796 - Independent Study and/or COM 799 - Masters Thesis hours) may be counted toward the minimum 33 hours necessary for graduation.

Accelerated Master's Degree Option

Eligible undergraduate majors in the School of Communication Studies may apply for early admission to the Master of Arts in Communication during the second semester of their junior year. Once accepted for early admission, students will be able to take up to 12 credit hours at the 600-700 level that apply to both their undergraduate and graduate degree programs. Students **MUST** enroll in COM 701 during the fall semester of their senior year as part of the accelerated program. Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program **AND** receive prior approval from the Director of Graduate Studies, the Department Head, and the Dean of the Graduate College (on a Mixed Credit Form).

Admission Requirements for the Accelerated Master's Option

1. The applicant must be of junior standing with a cumulative GPA of 3.25.
2. The applicant must have a declared major in the School of Communication or the equivalent, having completed 15 hours in the major department, including at least six hours at the 300-level or above, with a GPA in the major of 3.50 or better.
3. The applicant must submit three letters of recommendation, two of which must be written by a graduate faculty member in the School of Communication Studies.
4. The applicant must submit a letter of application of no more than 2 pages. This letter should address the following questions:
 - Why are you interested in pursuing an accelerated graduate degree in Communication?
 - Why did you choose to apply for accelerated graduate study in the Department of Communication, Media, Journalism, and Film at Missouri State University?
 - How does your background (educational and otherwise) prepare you for accelerated graduate study?
 - What professional goals do you hope this degree will help you achieve?
5. The applicant must submit a sample of sole-authored academic writing of no less than 3 pages.
6. Admission decisions will be made by the Graduate Faculty in the Department of Communication, Media, Journalism, and Film. Meeting the above entrance requirements does not guarantee admission to the Master of Arts in Communication Accelerated Program. The decision to accept an accelerated graduate student is competitive and complex. It is based on multiple factors, only one of which is meeting the admission requirements listed above.
7. Acceptance decisions for fall semester will begin in early February. Date for first consideration for applications is February 1.

Criminology and Criminal Justice, MS

Program Description

This program provides the opportunity for advanced knowledge and understanding of issues involving criminal behavior, the operation of the criminal justice system, crime control policy initiatives, and using theory and research methods for criminal justice program evaluation, within the framework of the university mission in public affairs. The program develops credentials for moving into management positions in criminal justice agencies, provides skills for critically analyzing the impact of criminal justice policy and practice, and serves as a springboard to Ph.D. programs at other universities.

Accelerated Master's Degree Option

Eligible Missouri State undergraduate majors in criminology may apply for preliminary acceptance into the Master of Science program in Criminology after admission requirements for the accelerated master's option have been satisfied. This option allows a student to take up to 12 hours of graduate credit counting toward both the requirements for the bachelor's and master's degrees in criminology. However, only six of these hours may count as electives in the criminology undergraduate program, with the remaining six hours counting as free electives toward the 120 credit hours required for the undergraduate degree.

If accepted, it is possible for a student to earn the Master of Science in Criminology by taking an additional two semesters and one summer beyond the completion of the Bachelor's degree, accumulating 138 total credits as opposed to the 150 required for students not in the accelerated program, assuming the student selects the thesis option. If the student elects the non-thesis option, they must complete at least 144 total hours as opposed to the 156 required for students not in the accelerated program.

Before enrolling in a course to be counted as both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, school director, and Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). Contact the Graduate College for further information.

Admission Requirements for the Accelerated Master's Option

1. Junior standing and an overall GPA of 3.25 or better.
2. Completion of CRM 210, CRM 220, CRM 340 and six additional hours of CRM with a GPA of 3.40 or better.
3. Submit a written statement of purpose explaining why the student wants to pursue the accelerated master's program along with the prospective plans following graduation.
4. Submit two reference letters from faculty familiar with their academic performance.
5. Be formally admitted to the accelerated master's option by the Criminology Graduate Admissions Committee.

Entrance Requirements for Regular MS, Criminology and Criminal Justice Program

1. Completion of a bachelor's degree from an accredited college or university AND a minimum overall undergraduate GPA of 3.00 on a 4.00 scale; OR at least a 3.00 on a 4.00 scale for the last 60 hours of undergraduate academic course work; **OR** have a combined score of 290 (875 under the old scoring system before August 1, 2011) on the verbal and quantitative sections of the Graduate Record Examination.
2. Students who do not meet the minimum entrance requirements stated in Item #1 may be admitted conditionally to the program at the discretion of the Criminology and Criminal Justice Graduate Program Director and the approval of the Graduate Dean. Conditional admission might be based on factors such as work experience or other indications of academic potential found in the application materials. On a case-by-case basis, the Criminology and Criminal Justice Graduate Program Director will set terms for full admission to the program.
3. Applicants must submit the following materials:
 - The Graduate Admission Application.
 - The application fee.
 - One official copy of transcripts showing course work for the bachelor's degree.
 - GRE scores (if applicable).
 - Statement of intent describing reasons for applying to the MS in Criminology and Criminal Justice along with post-graduation plans.
 - Two reference letters that speak to the applicant's academic potential.

Applicants must formally be admitted to the program by the Criminology and Criminal Justice Graduate Program Director.

Degree Requirements

Thesis Option Credit Hours: 30 Minimum

Core Requirements - Credit Hours: 18

- CRM 701 - Criminal Justice Policy
OR
- CRM 765 - Legal Issues in Criminal Justice
- CRM 705 - Applied Research in Criminal Justice
- CRM 715 - Leadership and Management in Criminal Justice
OR
- CRM 728 - The Ethics of Justice
- CRM 720 - Crime Theory and Policy
OR
- CRM 773 - Offender Thinking and Decision-making
- CRM 798 - Thesis I
- CRM 799 - Thesis II
- CRM 794 - Program Assessment in the Criminology and Criminal Justice Graduate Program

Electives

Twelve hours including a minimum of six hours taken from remaining CRM graduate-level courses. Courses outside CRM must be approved by the student's advisor.

Non-Thesis Option Credit Hours: 36 Minimum

Core Requirements - Credit Hours: 15

- CRM 701 - Criminal Justice Policy
OR
- CRM 765 - Legal Issues in Criminal Justice
- CRM 705 - Applied Research in Criminal Justice
- CRM 715 - Leadership and Management in Criminal Justice
OR
- CRM 728 - The Ethics of Justice
- CRM 720 - Crime Theory and Policy
OR
- CRM 773 - Offender Thinking and Decision-making
- CRM 797 - Policy Analysis Capstone
- CRM 794 - Program Assessment in the Criminology and Criminal Justice Graduate Program

Electives

Twenty-one hours including a minimum of fifteen hours taken from remaining CRM graduate-level courses. Courses outside CRM must be approved by the student's advisor.

Defense and Strategic Studies, MS

This program operates in Fairfax, Virginia, and is certified by the State Council of Higher Education for Virginia (SCHEV).

Program Description

The primary objective of the Department of Defense and Strategic Studies program is to provide professional, graduate level academic education and training for students planning careers in the fields of national security policy, international security affairs, defense analysis, arms control, and education. In essence, this is a graduate international studies program with emphasis on security problems, strategic interests, and U.S. policy and policy-making. It is a program in public affairs.

Option Areas

The Defense and Strategic Studies program offers two options:

- Defense and Strategic Studies/General (DSS/General)
- Defense and Strategic Studies/Weapons of Mass Destruction Studies (DSS/WMD)

Retention Requirements

To remain in the program, the student must maintain, by the completion of the second semester, a minimum GPA of 3.00 in DSS courses and in all graduate work, and make satisfactory progress toward the MS degree.

Entrance Requirements

Admission to the program requires a 2.75 GPA on the last 60 hours, a satisfactory Graduate Record Examination score (e.g., 290 or higher combined score on the verbal and quantitative), and letters of recommendation from undergraduate faculty or professionals acquainted with the students academic work or research and analytical skills. A relatively low GRE score may be compensated by an impressive undergraduate GPA and strong letters of recommendation.

Demonstrated graduate-level performance through a minimum of nine hours may compensate for GRE or undergraduate GPA weaknesses.

Degree Requirements Credit Hours: 36

Core Requirements. All students will take two core courses: DSS 601 - Seminar on Nuclear Strategy and Arms Control (3); and DSS 632 - Seminar on International Security Affairs (3). A minimum of 30 additional seminar hours would be selected by the student from the other DSS courses offered.

For the DSS/General option, the full array of elective courses is available.

For the DSS/WMD option, electives from the DSS course offerings that focus on WMD topics are required.

See Countering Weapons of Mass Destruction (CWMD) Certificate.

Research. A student will be required to complete either the Thesis option or the Non-thesis option.

- **Thesis Option.** Completion of a satisfactory thesis in the candidate's discipline. Thesis credit shall be no more than 3 semester hours of the minimum 36 hours required for a master's degree. If the student fails to complete the thesis during the semester in which they are first enrolled in DSS 799, they must enroll in DSS 794, Active in Research, each semester until the thesis is finished.

For the DSS/WMD option, the thesis topic must focus on an approved WMD subject.

- **Non-Thesis Option.** A comprehensive examination covering the DSS core field of study must be passed, and a research paper is required as part of the non-thesis exam. Students must be registered for a course in order to complete the non-thesis oral exam. DSS 794 or DSS 796 is recommended.

For the DSS/WMD option, the non-thesis research paper and oral exam must focus on an approved WMD subject.

Dramatic Writing, MFA

Program Description

Advanced study in Dramatic Writing for film, television, web, and the stage. The curriculum is designed to prepare students for a wide variety of professional writing outlets. While completing the program, students will not only learn crucial story skills and writing tools, but also become comfortable expressing their unique voices within the screenwriting and play writing formats. They will create a strong and diverse portfolio across a variety of media. In addition to learning the craft of writing, students will focus on how to create material designed for independent production.

To complement this education, the curriculum also focuses on teaching skills that will empower writers to bring their own dramatic work to life. Students will gain fundamental skills of film and theatre producing, as well as above-the-line video production skills. They will also have opportunities for expanding their knowledge through either academic study, hands-on-experience, or a mixture of both. This program ultimately aims to empower future writers by teaching them not only the craft of writing, but also the professional expectations of the industry. Students will gain hands-on experience in a variety of contexts in order to prepare for professional writing opportunities in the future.

Admission Requirements

Admission requires approval of a departmental entrance committee, who will examine the applicant's potential for program success. Our goal is to create a well-balanced cohort of students. Admission to the program is based on the following:

1. A completed Missouri State University Graduate Application in the GradCAS admission system. All university-wide requirements for graduate study must be met.
2. The following supplementary material:
 - A **Writing Sample** (maximum 10 pages) of the applicant's best work. This may be in either screenplay format, stage play format, or prose;
 - A 300- to 800-word **Statement of Purpose**, describing the reasons and goals behind the applicant's interest in graduate study and the direction of intended research;
 - At least one **Letter of Recommendation** from an individual able to speak of the applicant's academic achievements and potential;
 - The name, title, and contact information of at least two other **References** (either academic or professional) willing to support the applicant's candidacy.

All matters relating to admission are the applicant's responsibility.

Accelerated Master's Degree Option

Eligible undergraduates may apply for early admission to the Master of Fine Arts in Dramatic Writing during the second semester of their junior year. Once accepted for early admission, students may take up to 12 credit hours at the 600-700 level that apply to both their undergraduate and graduate degree programs. Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program AND receive prior approval from the Director of Graduate Studies, the Department Head, and the Dean of the Graduate College (on a Mixed Credit Form).

Admission requirements for the Accelerated Master's option

1. The applicant must be of junior or senior standing with a cumulative GPA of 3.25.
2. The applicant must have declared a minor in Screenwriting or declared to add a certificate in Writing for Television and Film. The applicant must also have completed 6 hours of screenwriting or playwriting courses.
3. The applicant must submit two letters of recommendation, one of which must be written by a graduate faculty member in the Department of Communication, Media, Journalism & Film.
4. The applicant must submit a 300-800 word Statement of Purpose. This statement should address the following questions:
 - Why are you interested in pursuing the MFA in Dramatic Writing at Missouri State University?
 - How does your experience (educational and otherwise) prepare you for accelerated graduate study?
 - What professional goals do you hope this degree will help you achieve?
5. The applicant must submit a writing sample from a play or screenplay (5-10 pages in standard formatting).

Admission decisions will be made by the Graduate Faculty. Meeting the above entrance requirements does not guarantee admission to the Master of Fine Arts in Dramatic Writing Accelerated Program.

Degree Requirements Minimum Credit Hours: 60

A minimum of 60 hours of coursework is required.

Writing Core Courses Credit Hours: 30

- MED 610 - Playwriting I
- MED 711 - Fundamentals of Screenwriting
- MED 712 - Feature Film Writing I
- MED 713 - Feature Film Writing II
- MED 714 - Writing Episodic Television
- MED 715 - Rewriting
- MED 716 - Writing Episodic Pilots
- MED 717 - Portfolio Script I
- MED 718 - Portfolio Script II
- MED 719 - Portfolio Review

Producing Core Courses Credit Hours: 9

- MED 684 - Producing the Feature Film
- MED 642 - TV/Film Producing
- MED 766 - Pre-Production Practicum for Stage and Screen

Production Core Courses Credit Hours: 9

- MED 764 - Visual Storytelling
- MED 765 - Directing for Film and Stage
- MED 767 - Staged Production

Electives Credit Hours: 12

Choose 12 Hours From the Following:

History and Theory Electives

- MED 670 - Film Theory
- MED 674 - History of Film I
- MED 675 - History of Film II
- MED 704 - Theory and Research in Mass Communication
- THE 742 - Dramatic Theory and Criticism

Industry/Professional Electives

- MED 695 - Media Internship
- MED 697 - Advanced Studies in Media

Producing Electives

- MED 781 - Producing the Short Film
- MED 782 - Producing the Web Series
- MED 783 - Producing the Multicam Show
- MED 784 - Producing the Documentary
- MED 785 - Producing the Longform Narrative
- MED 786 - Producing the Stage Play

Production Electives

- MED 662 - Digital Filmmaking Capstone
- MED 683 - Advanced Television Production
- MED 792 - Independent Study in Media
- MED 793 - Practicum in Producing or Production
- MED 652 - Preproduction
- MED 696 - Postproduction

Special Topics Electives

- MED 600 - Special Topics in Media
- MED 690 - Special Topics in Film

Theatre Electives

- THE 611 - Solo Performance
- THE 710 - Seminar: Performance
- THE 794 - Theatre Practicum
- THE 797 - Topics

Writing Electives

- MED 663 - Writing Adaptations for Television and Film
- MED 664 - Genre Writing for Television and Film
- MED 667 - Intermediate Screenwriting
- MED 668 - Writing for Television
- MED 693 - Rewriting Features and Pilots
- MED 671 - Writing the Web Series
- MED 672 - Advanced Screenwriting
- MED 794 - Practicum in Playwriting

Additional Degree Requirements

1. A student's Program of Study is subject to the approval of the Graduate Coordinator in consultation with the program faculty.
2. A probationary review will be conducted by the program faculty after the student completes MED 715 (usually the third semester) to evaluate the student's overall body of work. A less than satisfactory review could result in dismissal or additional coursework with a follow up review to assess progress.
3. All students will develop a Final Portfolio of their work, which the supervisory committee will review. These portfolios, developed in the final semester of graduate study in MED 719, must have:
 - a. Multiple well-polished scripts across a diverse range of media (film, TV, web, stage); these works should highlight the student's strengths and be geared toward the current professional marketplace.
 - b. A clearly written overview of these projects.
 - c. A successful oral defense of the portfolio before the supervisory committee.

English, MA

Mission

The MA in English seeks to impart advanced skills in writing, critical reading, and the analysis of language, as well as a broad, general knowledge of literature. Varying with students' interests, the MA prepares graduates for doctoral study and for careers in writing, teaching, and other professions.

Program Description

Students complete a core of 18 hours and specialize in one of three tracks: (1) literature, (2) creative writing, or (3) TESOL.

Admission Requirements

Due Dates: Admission applications are reviewed year-round, but applicants who are also applying for Graduate Assistantship positions in the English Department should make sure to submit all required application materials, for both admission and an assistantship, by March 1. (Review of English Department assistantship applications typically takes place in March, and the assistantship awards themselves typically begin during the following August.)

Admission to the program is based on the following components and Application Requirements/Deadlines:

1. A bachelor's degree with undergraduate preparation in English or, in the case of applicants interested in TESOL, course work in language and linguistics;
2. A minimum GPA of 3.00 overall;
3. A completed Missouri State University Graduate Application; and
4. The following materials must be submitted:
 - A personal statement (a 200- to 250-word description of the reasons and goals behind your interest in English graduate studies);
 - At least two letters of recommendation from individuals able to speak of the applicant's academic achievements and potential;
 - A 10-15 page writing sample or a set of writing samples totaling 10 to 15 pages;
 - Graduate Assistantship Application if the prospective student would like to be considered for this award (submitted directly to the English Department).

Applicants will be notified by mail once their application is complete. Students who do not meet 1 and 2, above, but show high promise, may be admitted conditionally. As conditions of admission, they may be required to take extra courses to address deficiencies (including weaknesses in writing) or they may have other requirements stipulated.

Accelerated Master's Requirements (Accelerated Master's Option Available Only for the Literature Track)

Admission Requirements:

1. Junior standing, with an overall GPA of 3.00 or higher;
2. Undergraduate major in B.A./B.S.-English, Literature Track;
3. A minimum of 9 hours in Literature with no grade below B in these courses;
4. Letters of recommendation from two Literature faculty members.

Once accepted, students may take up to 12 credit hours at the 600 level that will apply to both their B.A./B.S.-English, Literature Track and their M.A.-English, Literature Track. Before enrolling in a course to be counted as both undergraduate and graduate credit, undergraduate students must be accepted into the accelerated Master's program and complete a Mixed Credit Form. Acceptance into the program and all approvals must be completed before the end of the Change of Schedule Period for the course(s) to apply to the accelerated degree.

Core Requirements Credit Hours: 18

All students in the MA program in English must complete the following 18-hour core:

Credit Hours: 3

- ENG 700 - Introduction to Research Methods in English

Credit Hours: 3 - Early English Literature

- ENG 613 - Shakespeare
- ENG 615 - Chaucer
- ENG 641 - Renaissance Literature
- ENG 643 - Restoration and 18th Century Literature
- ENG 698 - Early English Language and Literature
- ENG 744 - Seminar: English Literature Before 1798

Credit Hours: 3 - Linguistics

- ENG 688 - Sociolinguistics for Language Teaching
- ENG 689 - Studies in Linguistics
- ENG 690 - Grammatical Analysis
- ENG 691 - Linguistic Theory
- ENG 695 - Principles of Second Language Acquisition
- ENG 698 - Early English Language and Literature
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 793 - Seminar: Linguistics

Credit Hours: 6 - Seminar

- ENG 710 - Seminar: Fiction
- ENG 711 - Seminar: Poetry
- ENG 712 - Seminar: Drama
- ENG 720 - Seminar: Composition Theory
- ENG 721 - Theory of Basic Writing
- ENG 722 - Literacy Theory and Composition
- ENG 725 - Seminar: Composition and Rhetoric
- ENG 735 - Seminar: Children's Literature
- ENG 744 - Seminar: English Literature Before 1798
- ENG 748 - Seminar: English Literature After 1798
- ENG 757 - Seminar: Early American Literature
- ENG 758 - Seminar: 20th Century American Literature
- ENG 780 - Seminar: Intellectual Backgrounds of Literature in English
- ENG 785 - Seminar: Critical Theories
- ENG 786 - Seminar: Form and Theory of Prose
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 793 - Seminar: Linguistics
- ENG 796 - Seminar: Assessment in Teaching English to Speakers of Other Languages (TESOL)

Credit Hours: 3 - Theory Component

- ENG 627 - History of Rhetoric
- ENG 628 - Rhetorics for the 21st Century
- ENG 688 - Sociolinguistics for Language Teaching
- ENG 689 - Studies in Linguistics
- ENG 690 - Grammatical Analysis
- ENG 691 - Linguistic Theory

- ENG 695 - Principles of Second Language Acquisition
- ENG 720 - Seminar: Composition Theory
- ENG 721 - Theory of Basic Writing
- ENG 722 - Literacy Theory and Composition
- ENG 725 - Seminar: Composition and Rhetoric
- ENG 781 - Rhetorical Criticism
- ENG 785 - Seminar: Critical Theories
- ENG 786 - Seminar: Form and Theory of Prose
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 793 - Seminar: Linguistics

Credit Hours: 18 - Total

Additional Degree Requirements Minimum Credit Hours: 15

Track Options & Requirements

The different tracks described below outline 15 additional hours of graduate-level course work. Students should choose electives with an awareness that at least half the credit hours applied toward the 33 hour requirement must be in courses numbered 700 or above.

Language Proficiency

TEOL Track Only Language Proficiency. Students pursuing the MA, English, TESOL track have a language proficiency requirement. The language requirement may be met through one of the following options: (a) completion of 12 hours of undergraduate course work in a foreign language with at least a "C" average; (b) completion of the second intermediate foreign language college course with a grade of "C" or higher; (c) completion of 6 hours of undergraduate course work in one foreign language with at least a "C" average and completion of 6 hours of undergraduate course work in a second foreign language with at least a "C" average; or (d) passing a reading competency test equivalent to the level of the second intermediate foreign language college course administered by the Department of Languages, Cultures, and Religions. Any M.A., English-TESOL student whose native language is not English will be considered to have met the language requirement.

Research Requirement

Thesis:

The thesis will ordinarily involve research on an original subject or an original approach to a subject. When appropriate, the thesis may be a creative work. Credit for the thesis (ENG 799), up to 6 hours, may apply to the minimum 33 hours required for the degree. A student must submit, and have approved, a formal thesis proposal before embarking on a thesis project and enrolling in ENG 799 - Thesis.

Degree Papers:

The paper may be a critical, interpretive, or investigative study of an original topic or an original treatment of a subject, based on primary sources. When appropriate, the paper may be creative work. The project must derive from a course taken to satisfy a degree requirement

Colloquia

Students are expected to attend and participate in academic and professional activities. These may be scheduled by the department or may include university and community events (scholarly conferences, professional workshops, lectures, and presentations).

Comprehensive Examination

The graduate student in English takes the comprehensive examination during the last semester of course work or later.

The comprehensive examination for the MA in English is based on reading lists that reflect the student's particular degree emphasis. Each student will prepare for two examination areas, and write two, two-hour essays. Students should begin preparing for the examination early in their graduate studies.

Creative Writing track

In addition to the core and degree requirements listed above, students choosing the graduate track in creative writing must complete the following courses:

Credit Hours: 6 - Advanced writing

- ENG 601 - Advanced Writing: Fiction
- ENG 604 - Advanced Writing: Nonfiction
- ENG 606 - Advanced Writing: Drama
- ENG 607 - Advanced Writing: Poetry
- ENG 701 - Graduate Fiction Workshop
- ENG 707 - Graduate Poetry Workshop
- ENG 708 - Creative Writing Project II

Credit Hours: 3

- ENG 651 - Literary Publication

Credit Hours: 6

- ENG 799 - Thesis or alternative 700-level course work and a degree paper

Literature track

In addition to the core and degree requirements listed above, students choosing the graduate track in literature must complete the following courses:

Credit Hours: 9

Electives in literature, linguistics, theory, writing

Credit Hours: 6

- ENG 799 - Thesis or alternative 700-level course work and a degree paper

TESOL Track

Students choosing the graduate track in TESOL (Teaching English to Speakers of Other Languages) must satisfy the following course work as part of their core requirements: ENG 688, 691, 695, 793 and 796. In addition to the core and degree requirements listed above, these students must also complete the following courses:

Credit Hours: 9 - Courses in Linguistics and TESOL

- ENG 688 - Sociolinguistics for Language Teaching
- ENG 605 - Methods in Teaching English to Speakers of Other Languages (TESOL)

Choose 1 course from

- ENG 690 - Grammatical Analysis
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 689 - Studies in Linguistics

Credit Hours: 6

- ENG 799 - Thesis or alternative 700-level course work and a degree paper

Note:

For descriptions of the TESOL graduate certificate program and the Missouri DESE ELL (English Language Learners) K-12 Endorsement requirements, see the TESOL Certificate website. Students may also consult with the Coordinator of the TESOL program, Dr. Suneeta Thomas.

History, MA

Program Description

The program is designed to provide instruction in various subject areas of history, which can prepare the student for advanced study at the doctoral level or serve as a terminal degree. There are three program tracks: United States History, World History, and U.S. and World History.

Entrance Requirements

1. Applicants must meet the minimum GPA of the Graduate College (2.75 on a 4.00 scale) to be considered for admission. Meeting the minimum standards is required for admittance but does not guarantee admission. Candidates with a GPA of 3.00 and above are generally preferred.

2. Applicants with 24 undergraduate hours in history are preferred. However, applicants with a background in associated fields from the social sciences, humanities, and/or education will also be considered. The department also considers applications from in-service certified teachers.

Potential applications who do not meet these criteria may contact the Graduate Director. It is possible to take undergraduate credits through Missouri State University to make up any deficits in either coursework or GPA requirements.

Application Process and Materials

All applicants must apply via the GradCAS system. Application materials should not be sent to the department directly. The department can only consider completed applications that include the following materials.

- **Curriculum Vitae:** Applicants must include an up-to-date Curriculum Vitae (CV). This document should include a list of the applicant's degree(s) as well as their GPA for each of their qualifications.
- **Transcripts:** Applicants must hold an undergraduate degree and submit the relevant transcripts to the GradCAS system. For the purpose of the application process, applicants may submit unofficial copies of their transcript(s) to the GradCAS system. Successful applicants will be required to submit official transcripts to the Graduate College within the first semester of their studies. If the applicant has credits from multiple institutions, the applicant must submit documentation for all institutions attended.
- **Three Letters of Recommendation:** Applicants must have three letters of recommendation. While academic references are preferred, applicants may also submit professional references, especially if the applicant is applying after a significant hiatus in their studies. Recommendations must be submitted via the GradCAS system. Please note that the GradCas system allows students to send a link directly to their referee, which allows their referee to submit their letter of recommendation directly to the applicant's file.
- **Writing sample:** Applicants must submit a writing sample of approximately 2,000 words. Writing samples must be submitted via the GradCAS system. It is recommended, although not required, that this writing sample is a piece of academic writing (preferably from the discipline of history), such as an essay or an excerpt from a longer work (such as a capstone project or thesis). For applicants who do not have an example of their academic writing, a sample of professional writing that the applicant feels accurately reflects their abilities may be submitted.
- **Evidence of Teaching Certification (if applicable):** Applicants with a teaching certificate in social studies from a US state or territory should submit a copy of their certification via the GradCas system.

Should applicants have any technical issues pertaining to GradCas, they should contact Graduate Admissions.

Dates of Consideration

For full consideration, complete applications must be received by March 1 for summer or fall admission and October 1 for spring admission. Applications received after the deadline will be considered, dependent on course availability.

Late admissions are processed in April for entry in the summer and the fall semesters and November for entry in the spring semester. If the department has already admitted a full cohort of students by that time, late applications will be automatically moved to the subsequent semester's application pool.

Graduate Record Examination

Please note that Missouri State University History Department DOES NOT require the Graduate Record Examinations (GRE).

Accelerated Master's Degree Option

Eligible history majors may apply for preliminary acceptance into the History MA program after admission requirements for the accelerated master's option have been satisfied. Once accepted, students will be able to take up to 9 hours of graduate-level

history courses that apply to both their undergraduate and graduate programs. Once accepted, students can take HST 701 - Historiography and Historical Method, which will count toward both degrees and will meet the HST 390, Historiography, requirements for a history major. This option gives exceptional undergraduate students the opportunity to complete their bachelor's and master's degrees in five years (10 semesters and a summer). Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program and receive prior approval from the history department head, history graduate director and the dean of the Graduate College.

Admission Requirements for the Accelerated Master's Degree Option

1. Junior standing, with an overall GPA of 3.25.
2. Major in History, and completed a minimum of 15 hours in history, including at least one course at the 300-level or higher, with a GPA in the major of 3.40.
3. Recommendation by a faculty member in the History Department

Total Hours for MA Degree - 30

United States History Track

The United States History track within the Master of Arts in History degree is a 30-hour program that requires the completion of the history core courses and the track requirements.

Students must take at least 15 credit hours at the 700 level. This degree may be completed entirely online, although there may be limited availability of some courses.

Students may take up to 9 credits outside the history department with the permission of the Graduate Director. The history department cannot guarantee online course availability in other departments.

Students do not have to declare whether they intend to complete the **Thesis** or **Non-Thesis option** immediately upon entry into the program. However, students who wish to complete the **Thesis option** must ensure that appropriate supervision for their project is available within the department. The History Department cannot guarantee thesis supervision to all students.

MA History Core Courses Credit Hours: 12

Students must obtain at least a B grade in one course from each of the following four categories.

- HST 701 - Historiography and Historical Method

3 Hours - US History Primary Source Seminar:

- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

3 Hours - US History Reading Seminar:

- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar

3 Hours - US History Research Seminar:

- HST 730 - American History Research Seminar

United States History Requirements Credit Hours: 12

12 credit hours of US History courses at either the 600 or 700 level. Students may complete additional US History Primary Source Seminars, US Reading Seminars, and/or US History Research Seminars to meet this requirement. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 631 - African American Leaders and Movements
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 698 - Internship in Public History
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 730 - American History Research Seminar
- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

Research Requirement Credit Hours: 6

Non-Thesis Option

Students may fulfill the research requirement of the degree by obtaining at least a B grade in one US History Primary Source Seminar, one US History Readings Seminar, and one US History Research Seminar. These courses count towards the fulfillment of requirements 2, 3, and 4 in the **MA, US History Core requirements**.

In addition, **Non-Thesis Option** students must complete 6 hours of elective courses. These may be outside the history department with the approval of the graduate director. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 614 - 17th-19th Century British Atlantic
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 629 - Plagues and Pandemics
- HST 631 - African American Leaders and Movements
- HST 632 - History of Ancient Egypt
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 698 - Internship in Public History
- HST 710 - Ancient History Research Seminar
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 730 - American History Research Seminar
- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar

- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar
- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar
- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

Thesis Option

Alternatively, students may fulfill the research requirement through the completion and successful defense of a thesis. Thesis students must complete 6 credit hours of HST 799 - Thesis, with their thesis supervisor.

World History Track

The World History track within the Master of Arts in History degree is a 30-hour program that requires the completion of the **MA, History Core Requirements** and **World History Track Requirements**.

Students must take at least 15 credit hours at the 700 level. This degree may be completed entirely online, although there may be limited availability of some courses.

Students may take up to 9 credits outside the history department with the permission of the Graduate Director. The history department cannot guarantee online course availability in other departments.

Students do not have to declare whether they intend to complete the **Thesis** or **Non-Thesis Option** immediately upon entry into the program. However, students who wish to complete the **Thesis Option** must ensure that appropriate supervision for their project is available within the department. The History Department cannot guarantee thesis supervision to all students.

MA World History Core Courses Credit Hours: 12

Students must obtain at least a B grade in one course from each of the following four categories.

- HST 701 - Historiography and Historical Method

3 Hours - World History Primary Source Seminar:

- HST 792 - World History Primary Source Seminar

3 Hours - World History Reading Seminar:

- HST 740 - European History Readings Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 790 - World History Readings Seminar

3 Hours - World History Research Seminar:

- HST 710 - Ancient History Research Seminar
- HST 750 - European History Research Seminar
- HST 780 - World History Research Seminar

World History Requirements Credit Hours: 12

12 credit hours of World History courses at either the 600 or 700 level. Students may complete additional World History Primary Source Seminars, World History Reading Seminars, and/or World History Research Seminars to meet this requirement. Eligible courses:

- HST 614 - 17th-19th Century British Atlantic
- HST 629 - Plagues and Pandemics
- HST 632 - History of Ancient Egypt
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 669 - The Material Worlds of Antiquity: Archaeology and Ancient History
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 698 - Internship in Public History
- HST 710 - Ancient History Research Seminar
- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar
- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

Research Requirement Credit Hours: 6

Non-Thesis Option

Students may fulfill the research requirement of the degree by obtaining at least a B grade in one World History Primary Source Seminar, one World History Readings Seminar, and one World History Research Seminar. These courses count towards the fulfillment of requirements 2, 3, and 4 in the **MA World History Core Requirements**.

In addition, **Non-Thesis** students must complete 6 hours of elective courses. These may be outside the history department with the approval of the graduate director. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 614 - 17th-19th Century British Atlantic
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 629 - Plagues and Pandemics
- HST 631 - African American Leaders and Movements
- HST 632 - History of Ancient Egypt
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 669 - The Material Worlds of Antiquity: Archaeology and Ancient History
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 698 - Internship in Public History
- HST 710 - Ancient History Research Seminar
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 730 - American History Research Seminar

- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar
- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar
- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

Thesis Option

Alternatively, students may fulfill the research requirement through the completion and successful defense of a thesis. Thesis students must complete 6 credit hours of HST 799 - Thesis, with their thesis supervisor.

U.S. and World Track

US and World History Track

The US and World History track within the Master of Arts in History degree is a 30-hour program that requires the completion of the **MA, US and World History Core Requirements** and the **US History Track** and the **World History Track** requirements.

Students must take at least 15 credit hours at the 700 level. This degree may be completed entirely online, although there may be limited availability of some courses.

Students may take up to 9 credits outside the history department with the permission of the Graduate Director. The history department cannot guarantee online course availability in other departments.

Students do not have to declare whether they intend to complete the **Thesis** or **Non-Thesis Option** immediately upon entry into the program. However, students who wish to complete the **Thesis Option** must ensure that appropriate supervision for their project is available within the department. The History Department cannot guarantee thesis supervision to all students.

US and World History Core Courses Credit Hours: 12

Students must obtain at least a B grade in one course from each of the following four categories.

- HST 701 - Historiography and Historical Method

3 Hours - Primary Source Seminar:

- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

- HST 792 - World History Primary Source Seminar

3 Hours - Reading Seminar:

- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 740 - European History Readings Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 790 - World History Readings Seminar

3 Hours - Research Seminar:

currently

- HST 710 - Ancient History Research Seminar
- HST 730 - American History Research Seminar
- HST 750 - European History Research Seminar
- HST 780 - World History Research Seminar

US History Requirements Credit Hours: 6

6 credit hours of US History courses at either the 600 or 700 level. Students may complete additional US History Primary Source Seminars, US Reading Seminars, and/or US History Research Seminars to meet this requirement. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 631 - African American Leaders and Movements
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 698 - Internship in Public History
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 730 - American History Research Seminar
- HST 783 - Women's History Primary Source Seminar

- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

World History Requirements Credit Hours: 6

6 credit hours of World History courses at either the 600 or 700 level. Students may complete additional World History Primary Source Seminars, World History Reading Seminars, and/or World History Research Seminars to meet this requirement. Eligible courses:

- HST 614 - 17th-19th Century British Atlantic
- HST 629 - Plagues and Pandemics
- HST 632 - History of Ancient Egypt
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 669 - The Material Worlds of Antiquity: Archaeology and Ancient History
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 698 - Internship in Public History
- HST 710 - Ancient History Research Seminar
- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar
- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

Research Requirement Credit Hours: 6

Non-Thesis Option

Students may fulfill the research requirement of the degree by obtaining at least a B grade in one Primary Source Seminar, one Readings Seminar, and one Research Seminar. These courses count towards the fulfillment of requirements 2, 3, and 4 in the **MA**

US and World Core Requirements. In addition, Non-Thesis students must complete 6 hours of elective courses. These may be outside the history department with the approval of the graduate director. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 614 - 17th-19th Century British Atlantic
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 629 - Plagues and Pandemics
- HST 631 - African American Leaders and Movements
- HST 632 - History of Ancient Egypt
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 669 - The Material Worlds of Antiquity: Archaeology and Ancient History
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 698 - Internship in Public History
- HST 710 - Ancient History Research Seminar
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
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- HST 730 - American History Research Seminar
- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar

- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar
- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar
- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

Thesis Option

Alternatively, students may fulfill the research requirement through the completion and successful defense of a thesis. Thesis students must complete 6 credit hours of HST 799 - Thesis, with their thesis supervisor.

Comprehensive Examination

A comprehensive examination must be passed before the degree is granted. For non-thesis students, this will consist of a written examination. For students who complete a thesis, this will consist of both a written examinations and an oral thesis defense.

International Affairs, MIA

Program Description

The Master of International Affairs (MIA) program is designed to prepare students for internationally oriented careers in the public, private and non-profit sectors, as well as for doctoral studies in political science and related disciplines. It provides broad exposure to theories of international relations and comparative politics, along with the opportunity to develop expertise in specific world regions and topics. Students can potentially combine the degree with a graduate certificate in an area such as defense and strategic studies, homeland security or international business. Qualified students of all majors are welcome to apply and there are no prerequisite courses.

Admission Requirements

Successful applicants will generally satisfy the following requirements:

1. An undergraduate GPA of at least 3.00 (or the equivalent for international students) from an accredited college or university.
2. For international students, a TOEFL iBT score of at least 79, or the equivalent on another standard English language test. We may waive this requirement for students from undergraduate institutions where instruction is entirely in English.
3. Three strong letters of recommendation from undergraduate professors and/or persons well acquainted with the applicant's abilities.
4. A personal statement that is solidly written and organized and suggests that the applicant's background and/or professional plans fit the MIA program.

Applicants are not required to submit GRE scores but if they do the scores will be taken into consideration.

Accelerated Master of International Affairs Option

Missouri State undergraduate students of any major may apply for admission into the accelerated version of the MIA program, which allows them to begin taking graduate coursework as undergraduates. Courses taken as part of the program will count for both graduate and undergraduate credit and may allow students to finish their graduate degree in fewer semesters than usual. Students in the accelerated program may take a maximum of 12 graduate credit hours as undergraduates. They can be admitted into the program as early as the second semester of their sophomore year and begin taking graduate classes during their junior year. In addition to being accepted into the program, students in the accelerated MIA must submit a "mixed credit form" to the program director for each course they wish to take for graduate credit. Undergraduate students who have been admitted into the accelerated program will be expected to meet the Missouri State Graduate College's academic standards in their graduate courses.

Admission Process for the Accelerated MIA Option:

Students who are interested in the accelerated MIA option should consult the program director, as well as their undergraduate advisor. Once they have decided to apply, they must do so through the GradCAS online application system accessed via the Missouri State Graduate College's webpage. They will be asked to submit an undergraduate transcript and three letters of recommendation.

Successful applicants will generally satisfy the following requirements:

1. At least 60 credit hours of undergraduate coursework, including courses in progress.
2. A GPA of at least 3.0 overall and 3.3 in the student's major.
3. Three strong letters of recommendation, at least two of which should be from faculty members at Missouri State or another college or university (if they are transfer students).

Graduate Assistantships

The Department of Political Science offers a limited number of graduate assistantships to students enrolled in the MIA program. Graduate assistants are chosen based on their academic credentials and ability to assist faculty members with their work. All graduate assistants are required to take 9 hours of course work per semester.

Degree Requirements Credit Hours: 36 Minimum

Required Courses:

- PLS 676 - Quantitative Methods of Political Science and Public Policy
- PLS 705 - Seminar in Comparative Politics
- PLS 721 - International Political Economy
- PLS 725 - International Security
- PLS 732 - International Relations in Theory and Practice
- PLS 737 - Seminar in International Organizations

Total Hours Required: 18

Research Project Credit Hours: 3-6

Students must complete an extensive research project. There are two options for doing so: a 3 hour Independent Study in Political Science project PLS 780 - Independent Study in Political Science. The thesis option is only open to students with a GPA of 3.70 or above.

Elective Courses Credit Hours: 12-15

Depending on whether a student is pursuing the thesis or the non-thesis option, the student must complete either 12 or 15 additional hours that reflect his/her specific interests within the program. While the expectation is that most of those courses will be in the Political Science and Philosophy department, with permission from the Program Director, a student may take certain graduate-level courses in other departments, including Criminology, Economics, Geography, History and Management. Students may also use their electives to complete a graduate certificate program, such as Homeland Security and Defense. Finally, opportunities are available to earn MIA credit through student abroad programs.

Foreign Language Requirement

Students who have not already completed two semesters of a foreign language as an undergraduate or do not already speak a second language must complete at least two semester of training in a single language. These courses do not count toward the 36 hours required for the degree.

Comprehensive Examination

Those students with a GPA below 3.70 must pass a comprehensive examination covering their coursework in the program, especially in the core courses.

Music, MM

Program Objective

The Master of Music seeks to promote the continued development of individual talents, interests, and philosophies that can be used creatively to explore, preserve, and extend our cultural heritage. The degree will prepare students for the many and various challenges of the music profession.

Program Description

The Master of Music degree will develop professional competence in the evaluation and dissemination of knowledge in such disciplines as conducting, pedagogy, music performance, theory and composition, and music education. Each student will complete a core of music courses and will select one of the five specific concentrations. A final research project will be required of each candidate. Missouri State University is an accredited institutional member of the National Association of Schools of Music.

Entrance Requirements

Music Department Standards

The entering graduate student in music must meet all requirements for admission to graduate studies.

Conducting Concentration

To be admitted to the conducting program, students must satisfactorily meet the following conditions:

1. intensive interview with the faculty member from the conducting area with whom they will study;
2. submission of DVD or videotapes of ensemble conducting performances OR visitation of Missouri State University faculty to concert or classroom situations, OR observation of live performance by Missouri State faculty;

Music Education Concentration

To be admitted to the music education program, students must satisfactorily meet the following conditions:

1. Bachelor's degree from an accredited music program with a completed major equivalent to certification by a state agency to teach music (K-12);
2. Interview with a faculty member in the music education area;
3. A letter of intent containing teaching and professional goals, future plans, and background information;
4. Two letters of recommendation from professionals familiar with the candidate's academic abilities and teaching potential.

Music Pedagogy Concentration

Applicants must be prepared to perform a live audition consisting of at least three pieces of contrasting styles. Piano auditions must be memorized.

Music Composition Concentration

To be admitted to the composition program, students must submit at least three compositions to the composition faculty for their approval.

Performance Concentration

Applicants must be prepared to perform a live audition consisting of at least three pieces of contrasting styles. Piano auditions must be memorized. Vocal auditions should include five memorized selections in contrasting styles including pieces in French, German, and Italian.

Degree Requirements

1. **Hours.** Candidate will complete a minimum of 32 hours of course work.
2. **Placement Exams.** Master of Music students are required to take placement exams in music history and music theory. Students who do not pass either or both exams may correct those deficiencies by passing one or more MSU undergraduate courses as determined by the graduate coordinator. Alternatively, those students can retake either of both exams until they achieve passing scores. Remedial courses offered by other institutions, online or otherwise, are also acceptable subject to prior approval.
3. **Final Project.** A final project will be required of each candidate. See individual curriculum outline for specific requirements. The candidate will work with a major advisor to determine the precise scope of the project.

4. **Comprehensive Examination.** A written comprehensive examination must be passed before a degree will be granted. The written examination will be taken after the course work has been completed. The exam will be prepared and evaluated by a committee assigned for individual students.

Conducting Curriculum Outline

Required Core

- MUS 700 - Introduction to Graduate Study in Music
- Advanced Courses in Music Theory and Composition or Music History **Credit Hours: 6**
- MUS 790 - Research Project
- MUS 798 - Graduate Recital

Total Credit Hours: 13

Note:

*Two hours of the final project will be devoted to a written research paper discussing and analyzing the pieces to be performed on the final public performance. The other 2 hours will be the preparation and conducting of the public performance.

Conducting Concentration

- 6 credits of MUS 670 - Instrumental Conducting Seminar
OR
- 6 credits of MUS 671 - Choral Conducting Seminar
- MUS 781 - Score Reading and Analysis
- MUS 746 - Seminar: Symphonic Literature
OR
- MUS 747 - Seminar: Wind Literature
OR
- MUS 748 - Seminar: Choral Literature
2 Credits from the following courses:
- MUS 675 - Band
OR
- MUS 678 - University/Community Band
OR
- MUS 762 - Choral Union
OR
- MUS 768 - Chorale
OR
- MUS 775 - Band
OR
- MUS 776 - University Symphony
OR
- MUS 778 - University/Community Band
- Music Electives (some applied study, seminar conducting, language/diction recommended) **Credit Hours: 5**

Total Credit Hours: 19

Music Education Curriculum Outline

Required Core

- MUS 700 - Introduction to Graduate Study in Music
- Advanced Courses in Music Theory and Composition or Music History **Credit Hours: 6**
4 credits from the following courses:
- MUS 790 - Research Project
OR
- MUS 799 - Thesis

Total Credit Hours: 13

Music Education Concentration

- MUS 725 - History and Philosophy of Music Education
- MUS 707 - Psychology of Music
- MUS 708 - Contemporary Music Education
- Music Education Electives (some ensemble and applied recommended) **Credit Hours: 10**

Total Credit Hours: 19

Pedagogy Curriculum Outline

Required Core

- MUS 700 - Introduction to Graduate Study in Music
- Advanced Courses in Music Theory and Composition or Music History **Credit Hours: 6**
- MUS 790 - Research Project
- MUS 798 - Graduate Recital

Total Credit Hours: 13

Pedagogy Concentration

- 4 credits from the following courses:
- MUS 649 - String (Instrument)
OR
 - MUS 651 - Piano
OR
 - MUS 653 - Voice
OR
 - MUS 655 - Woodwind
OR
 - MUS 656 - Brass
OR

- MUS 657 - Percussion
OR
- MUS 660 - Carillon
OR
- MUS 749 - String (Instrument)
OR
- MUS 751 - Piano
OR
- MUS 753 - Voice
OR
- MUS 755 - Woodwind (Instrument)
OR
- MUS 756 - Brass
OR
- MUS 757 - Percussion
2 credits from the following courses:
- MUS 675 - Band
OR
- MUS 678 - University/Community Band
OR
- MUS 682 - Piano Ensemble
OR
- MUS 762 - Choral Union
OR
- MUS 768 - Chorale
OR
- MUS 775 - Band
OR
- MUS 776 - University Symphony
OR
- MUS 778 - University/Community Band
OR
- MUS 792 - Accompanying
- MUS 658 - Survey of Pedagogical Methods
- MUS 738 - Survey of Pre-College Repertoire
- MUS 739 - Pedagogy Practicum I
- MUS 740 - Pedagogy Practicum II
- Music Electives **Credit Hours: 3**

Total Credit Hours: 19

Composition Curriculum Outline

Required Core

- MUS 700 - Introduction to Graduate Study in Music
- Advanced Courses in Music Theory and Composition or Music History **Credit Hours: 6**
4 credits from the following courses:
- MUS 790 - Research Project

OR

- MUS 798 - Graduate Recital

OR

- MUS 799 - Thesis

Total Credit Hours: 13

Composition Concentration

- MUS 629 - Introduction to Commercial Music
- MUS 728 - Pedagogy of Music Theory
- 9 credits of MUS 715 - Advanced Composition
- Music Elective **Credit Hours: 4**

Total Credit Hours: 19

Performance Curriculum Outline

Required Core

- MUS 700 - Introduction to Graduate Study in Music
- Advanced courses in Music Theory and Composition or Music History **Credit Hours: 6**
- MUS 790 - Research Project
- MUS 798 - Graduate Recital

Total Credit Hours: 13

Performance Concentration

8 credits from the following courses:

- MUS 749 - String (Instrument)
- OR**
- MUS 751 - Piano
- OR**
- MUS 753 - Voice
- OR**
- MUS 755 - Woodwind (Instrument)
- OR**
- MUS 756 - Brass
- OR**
- MUS 757 - Percussion
- OR**
- MUS 760 - Carillon

4 credits from the following courses:

- MUS 661 - Men's Chorus
- OR**
- MUS 663 - Women's Chorus

OR

- MUS 762 - Choral Union

OR

- MUS 768 - Chorale

OR

- MUS 772 - Small Ensembles

OR

- MUS 773 - Chamber Orchestra

OR

- MUS 774 - Jazz Ensemble

OR

- MUS 775 - Band

OR

- MUS 776 - University Symphony

OR

- MUS 778 - University/Community Band

OR

- MUS 792 - Accompanying

OR

- MUS 793 - Opera Workshop

- MUS 630 - Vocal Pedagogy and Materials

OR

- MUS 658 - Survey of Pedagogical Methods

- Music Electives **Credit Hours:** 5

Total Credit Hours: 19

Note:

* Voice majors are expected to be proficient in German, French and Italian diction.

Public Administration, MPA

Program Description

The Master of Public Administration (MPA) program is a 36 credit hour program designed to prepare students for careers in public services and to provide professional development for administrators of public agencies and non-profit organizations. Our mission is to: (1) develop well-educated students for professional careers in public service; (2) prepare students to excel in public and non-profit governance through a curriculum focused on theoretical, practical, and analytical instruction; and (3) foster an environment that strengthens the profession of public administration. In conjunction with the University's state-wide mission in public affairs, our aim is to produce graduates who are culturally competent, understand the importance of civic and community engagement, and value the role of ethical leadership in public service:

1. are culturally competent and understand the importance of civic engagement and the role of ethical leadership in public service;
2. have an understanding of the role that public service plays in democratic society; and
3. are prepared to pursue advanced study in public administration.

All students with demonstrated academic competence, interested in pursuing a career in public service, and who meet the entrance requirements of the MPA program will be welcomed into the program. The program is designed to give students the

opportunity to pursue specializations that supplement a solid core in public administration. These specializations are offered as certificates. The student can choose from one of the following areas: 1) public safety, 2) local government management, 3) public policy, 4) economic development. Students must complete both the core and one certificate to earn the MPA.

Entrance Requirements

1. 3.00 GPA (on a 4.00 scale) in undergraduate degree from an accredited institution.
2. Three strong letters of recommendation from undergraduate professors and/or persons well acquainted with the applicant's education and abilities.
3. Applicants with a GPA between 2.75 and 2.99 may be admitted to the program on a provisional status at the discretion of the MPA director. A personal interview may be required.
4. Foreign students applying for admission to the MPA program who do not have an undergraduate degree from an American university must have completed the equivalent of an undergraduate degree at an accredited university. They must also demonstrate graduate-level proficiency in English by either having achieved a score of 550 on the paper-based, or a comparable score of 79 on the IBT or internet-based TOEFL, or by other equivalent means.

Graduate Assistantships

All graduate assistants in Political Science are required to take 9 hours of course work per semester.

Advisement

1. The MPA director may waive the internship requirement for students who have appropriate and sufficient prior work experience in public or not-for-profit organizations. Students with prior work experience in the public or not-for-profit sector should submit a letter to the MPA director requesting a waiver in the internship requirement along with a copy of his/her resume. Students for whom an internship requirement is waived must still take a three hour course to substitute for the internship.
2. All MPA students in consultation with the MPA director will select an area of concentration (cognate field) within the MPA degree. Students shall take elective courses from the list of courses for the area of concentration he/she has selected. Exceptions may be granted at the discretion of the MPA director.
3. All MPA students should work closely with the MPA director in completing their required and elective courses, internship, Advisor Approved Program of Study, and comprehensive examination.
4. Students interested in pursuing a thesis option should establish a thesis committee consisting of three graduate faculty members and select one of the members to serve as chair of the thesis committee. The chair of the committee will guide the student through the entire thesis process.

Degree Requirements Credit Hours: 36 Minimum

Required Core:

- PLS 673 - Policy Analysis
- PLS 676 - Quantitative Methods of Political Science and Public Policy
- PLS 752 - Public Personnel Management
- PLS 753 - Management Techniques and Organizational Behavior
- PLS 756 - Budgeting and Financial Management for State and Local Government
- PLS 771 - Seminar in Public Administration
- PLS 778 - Ethics and Leadership in the Public Sector

Total Hours Required: 21

Note: If the student has taken a 500-level required course for undergraduate credit, he/she shall substitute a 600 or 700-level course selected with the approval of the advisor and the department for the course already taken.

Internship

In-service training in an approved local, county, state, federal, non-profit or other approved agency (unless waived for candidate with adequate experience.)

- PLS 781 - In-Service Training in Public Administration

Research:

Non-Thesis Option

Complete required core courses and up to 18 hours of courses in student's chosen area of concentration (see Comprehensive Examination below).

Thesis Option

Complete required core courses, PLS 799 - Thesis (6 hours), and up to 12 hours of courses in student's chosen area of concentration (see Areas of Concentration below).

- PLS 799 - Thesis

Comprehensive Examination

The Director of the MPA Program will prepare and administer a written comprehensive examination covering the general field of public administration, reflected in the required core courses offered. All students except those who choose a thesis option and successfully complete a master's thesis will be required to take and pass a **written** comprehensive examination. Students who do not perform at satisfactory level on their comprehensive examination will be required to pass an oral examination.

Areas of Concentration

The MPA student will take the required courses in his/her area of concentration that will result in earning a certificate to compliment the core courses. They will also select other courses to fill out the elective requirements depending on whether the internship is waived. Certificate **12 hrs**

Local Government Management Certificate - Credit Hours: 12

Required Courses - Credit Hours: 6

These courses are required for completion of this certificate.

- PLS 776 - Local Public Service Delivery
- PLS 777 - Local Government and Politics and Administration

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- PLS 760 - Management of Intergovernmental Relations
- PLS 774 - Municipal Planning and Zoning
- ACC 600 - Accounting Concepts for Managers

Public Policy Certificate - Credit Hours: 12

Required Courses - Credit Hours: 6

These courses are required for completion of this certificate.

- PLS 673 - Policy Analysis
- PLS 762 - Public Policy and Program Evaluation

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- PLS 685 - Public Policy for a Global Environment
- PLS 754 - Seminar in Health Policy
- ECO 615 - Public Sector Economics
- SWK 715 - Social Welfare Policy and Services

Public Safety Certificate - Credit Hours: 12

Required Courses - Credit Hours: 6

These courses are required for completion of this certificate.

- PLS 772 - Introduction to Public Safety Services
- PLS 773 - Hazard Analysis, Mitigation, and Preparedness

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- PLS 719 - Strategic Planning and Organizational Imperatives in Homeland Security
- PLS 717 - Multidisciplinary Approaches to Homeland Security
- GLG 647 - Water Resources
- GRY 731 - Environmental Assessment
- CRM 740 - Foundations of Homeland Defense and Security

Economic Development Certificate

Required Courses - Credit Hours: 12

Required courses - 6 hours

- PLS 775 - Economic Development for Local and State Governments
- PLS 774 - Municipal Planning and Zoning

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- MKT 772 - Marketing Management
- ECO 600 - Fundamentals of Economics
- PLN 671 - Land Use Planning

Accelerated Master of Public Administration option

Eligible Missouri State University majors in political science may apply for preliminary acceptance into the Master of Public Administration program after admission requirements for the accelerated master's option have been satisfied. If accepted, the undergraduate requirements for PLS 673 - Policy Analysis, PLS 676 - Quantitative Methods of Political Science and Public Policy, and PLS 781 - In-Service Training in Public Administration can be counted for both the undergraduate and graduate degrees.

In addition, PLS 771 - Seminar in Public Administration can be taken during the student's senior year and can also count toward both degrees. This option gives exceptional undergraduate students the opportunity to complete their bachelor's and master's degrees in ten semesters and a summer. Contact the Director of the MPA Program for further information and guidelines.

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count the course toward the master's degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program director, department head of the undergraduate program, and the dean of the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Process for the Accelerated MPA Option

Immediately prior to or during the junior year, the prospective student should discuss the possibility of participating in the Accelerated Master's Degree program with their undergraduate advisor and Department Head of the Political Science and Philosophy Department. If the student's academic record and potential are judged strong, the Head recommends the student to the proposed Accelerated MPA program. Undergraduate students who enter the Accelerated Master's Degree program should have a sponsor, i.e., a MPA faculty member who will serve as a mentor to the student throughout the undergraduate and graduate programs.

A student must be admitted into the Accelerated Master's Degree Program at Missouri State University in order to begin taking graduate course work for dual credit. Students admitted into the Accelerated Master's Degree program will not be fully admitted into the Graduate College until completion of their undergraduate degree and fulfillment of all other requirements for admission to the Graduate College (such as the Graduate Record Examination). Students should be awarded the bachelor's degree upon completion of a minimum of 120 hours of combined graduate and undergraduate course work and degree specific requirements.

To be admitted into the Master's of Public Administration program, you must meet specific requirements:

Admission Requirements for the Accelerated MPA Option

1. Public administration and political science undergraduate students must have at least junior standing and a minimum of 60 credit hours.
2. Applicants must have a minimum 3.50 GPA in the public administration or political science curriculum and 3.00 overall GPA.
3. Students in the Accelerated Master's Degree Program must maintain a 3.50 GPA in the public administration and/or political science curriculums and maintain a 3.00 overall GPA to remain in the program.
4. Transfer students will be allowed into the Accelerated Master's Degree Program. Transfer students must have a minimum of 30 graded hours of course work at Missouri State University before they can be accepted into the program.
5. A maximum of 12 credits of accumulated graduate hours may be applied toward completion of their undergraduate degree requirements. The following courses will be allowed:
 - PLS 673 - Policy Analysis
 - PLS 676 - Quantitative Methods of Political Science and Public Policy
 - PLS 771 - Seminar in Public Administration
 - PLS 781 - In-Service Training in Public Administration

Religious Studies, MA

Program Description

This program will develop sound knowledge and professional skills in the discipline of Religious Studies, as well as in the broader context of related disciplines in the humanities. The following areas of emphasis are available: Religions of Asia; Religions of Europe and the Middle East; Biblical Studies; and Religion and Culture. Upon completion of the program, students will have acquired a foundation of knowledge, skills, and perspectives for working in a variety of vocations where a high degree of versatility in human affairs, knowledge in humanities, and an ability to negotiate among various religious perspectives are required. The program provides a strong foundation for doctoral studies and teaching, and it can enhance preparation for such professional careers as non-profit work, counseling and ministry.

Admission Requirements

1. A bachelor's degree in religious studies or a related program in the humanities or social sciences. Some coursework in religious studies is desirable.
2. A minimum GPA of 3.00 on a 4.00 scale. Students who do not meet the GPA requirement may opt to take the GRE and normally will be expected to score a minimum of 158 on the verbal section (580 under the old scoring system before August 1, 2011) and a minimum of 300 (1,000 under the old scoring system) on the combined verbal and quantitative sections.
3. There are additional university requirements for international applicants, including documentation of financial support and demonstration of proficiency in the English language if your primary language is not English. See International Services Requirements for Graduate Admission for more information.
4. Applicants lacking the appropriate qualifications for the program may be admitted but will be required to rectify deficiencies with appropriate course work. Usually these courses will not count toward the master's degree. Students who do not meet the GPA or GRE standards outlined above may be granted admission to the program at the discretion of the Graduate Program Director.

Accelerated Master's Degree Option

Eligible undergraduate majors in Languages, Cultures and Religions or an equivalent department from an accredited institution may apply for early admission to the Master of Arts in Religious Studies. Once accepted for early admission, students will be able to take up to twelve (12) credit hours at the 600- and 700-level that apply to both their undergraduate and graduate programs. Before enrolling in courses to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated master's program AND receive prior approval from the Graduate Program Director, Department Head, and the Graduate College Dean (on a Mixed Credit Form).

Admission Requirements for the Accelerated Master's Program

1. Junior standing, with an overall GPA of 3.4.
2. Major in Religious Studies or an equivalent, having completed fifteen hours in the department, including at least six hours at the 300-level or above, with a GPA in the major of 3.5.
3. Recommendation by a faculty member in Languages, Cultures, and Religions or an equivalent department at another institution.
4. Admission by the Graduate Committee of the Department of Languages, Cultures, and Religions.

Degree Requirements Credit Hours: Minimum of 30 hours

Core Requirements - Credit Hours: 15

- REL 685 - Theories of Religion *
- REL 711 - Seminar in Religions of Asia
- REL 731 - Seminar in Biblical Studies
- REL 751 - Seminar in Religions of Europe and the Middle East
- REL 771 - Seminar in Religion and Culture

Note:

*Students who have completed REL 580 Theories of Religion must substitute REL 685 with an additional 600- or 700-level course (3 hours) approved by the Graduate Program Director

Electives - Credit Hours: 15

All students must complete two additional seminars (6 hrs), distributed across two of four options:

- REL 711 - Seminar in Religions of Asia
- REL 731 - Seminar in Biblical Studies
- REL 751 - Seminar in Religions of Europe and the Middle East
- REL 771 - Seminar in Religion and Culture

Additional Electives

They must also complete additional electives selected from 600- and 700-level courses to total 30 hours. At least six of the elective hours must be in the Languages, Cultures, and Religions department. For students writing a thesis, up to six of the elective hours may be in REL 799 - Thesis - the first 3 hours typically taken in the third semester of study after the student has completed at least 12 hours of course work and the second 3 hours taken the following semester to complete the thesis.

Advisory Committee

Each student will be advised by the Graduate Program Director who serves as the student's Primary Advisor. As soon as possible, the student will also select a faculty member to serve as his or her Research Advisor who will chair a Research Advisory Committee consisting of at least three persons. This committee will supervise the creation of the candidate's Thesis or Research Portfolio.

Program of Study

The candidate's program will be structured initially by the Primary Advisor in consultation with the student. The program of study can be modified as needed by the Research Advisor in consultation with the student and Primary Advisor.

Comprehensive Examination

The comprehensive examination will be administered by the student's Research Advisor and a second member of the student's Research Advisory Committee and adjudicated by the student's Research Advisory Committee upon completion of at least 12 hours of course work, normally at the beginning of the third semester.

Research

In addition to completing their course work, students must complete either a thesis or a research portfolio in a manner acceptable to the student's Advisory Committee. The thesis or research portfolio constitutes the student's research component and will be defended orally before the student's Research Advisory Committee.

Secondary Education: English Area of Emphasis, MSED

See program requirements for the MSED, Secondary Education.

Accelerated Master's Degree Option - MSED, Secondary Education, English

The MSED, Secondary Education, English accelerated master's degree option provides exceptional MSU undergraduate students the opportunity to enroll in a combined baccalaureate and master's degree program.

Eligible BSED majors may apply for preliminary acceptance into the MSED, Secondary Education, English program after admission requirements for the accelerated master's degree option have been satisfied. Once accepted, students will be able to take up to 12 hours of graduate-level English courses that apply to both their undergraduate and graduate programs. Before enrolling in courses for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and receive prior approval from the English Education Program Coordinator, the ENG Department Head, and the Graduate College. This is done by using a mixed credit form. A student will be fully admitted to the Graduate College upon completion of the requirements for the baccalaureate degree, provided the student meets all other requirements for admission to the Graduate College. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Requirements for Accelerated Master's Degree Option - MEd, Secondary Education, English

1. Junior standing, with an overall GPA of 3.00
2. Proclaimed BSEd major
3. For middle education majors: Accepted into the teacher education program
4. For secondary education majors: Accepted into the teacher education program
5. Other BSEd majors: Contact the graduate English Education program coordinator

Graduate Coursework in English Taken by Undergraduates and Accepted into the Accelerated Master's Option:

Once accepted, students will be able to take up to 12 hours of graduate-level English courses that apply to both their undergraduate and graduate programs. Students will choose from the following:

- ENG 613 - Shakespeare
- ENG 629 - Composition and Rhetoric in High School and Junior College
- ENG 631 - Writing for Teachers
- ENG 636 - Young Adult Novel
- ENG 665 - Literature and Language Workshop
- ENG 666 - Reading Instruction, Assessment, and Remediation in Secondary ELA Classrooms
- ENG 672 - Writing Grant Proposals
- ENG 690 - Grammatical Analysis
- LTC 624 - Analysis and Correction of Difficulties in Adolescent Literacy

Undergraduate Prerequisites for Regular Admission to MEd, Secondary Education, English

The applicant must be certified or certifiable in English in the state of Missouri upon completion of the minimum 15 hours in English. Before beginning the MEd (English) program, the applicant should have completed (and attained a minimum 3.00 GPA in) at least one composition course beyond freshman level, one course in the English language, and 12 hours of survey or period courses in British and American literature.

Program Requirements in English

(15-21 hours of graduate course work)

Composition - Credit Hours: 3

Students who have used ENG 520/ENG 629 as part of their undergraduate degree course work will substitute another course approved by the Graduate Director or English Education advisor.

- ENG 629 - Composition and Rhetoric in High School and Junior College

One Course in a Literary Genre - Credit Hours: 3

such as fiction, poetry, or drama.

English Electives - Credit Hours: 9-15

chosen with a student's advisor. Including at least 3 hours of 700-level coursework, students must complete a minimum of 15 total hours in English graduate courses. With permission of the advisor, a student may apply 3-6 additional hours in English electives (21 total) to the 33 hour degree minimum.

Research Requirement

Candidates for the MEd (English) may satisfy their research requirement by completion of either a thesis or a degree paper. The subject of their research may derive from course work in education or English, and, when appropriate, may feature creative work.

Comprehensive Examination

This exam is taken the semester course work is completed, or later. The examination is based on reading lists that reflect English and education content areas. Each student will prepare for two examination areas, writing two 60-minute essays and three 30-minute essays. Students should begin preparing for the examination early in their graduate studies.

Secondary Education: History Area of Emphasis, MEd

See program requirements for the Secondary Education, MEd.

Prerequisite History Requirements

A minimum of 24 undergraduate hours in history.

History Requirements

Elect One Course From

- HST 720 - American History Readings Seminar
- HST 740 - European History Readings Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar

Additional Course Work in History - Credit Hours: 12

Total Hours Required: 15

Accelerated Master's Degree Option

Eligible undergraduate BEd majors in History may apply for early admission to the Master of Science in Education in History. Once accepted for early admission, students will be able to take up to six (6) hours of history courses at the 600- or 700-level that apply to both their undergraduate and graduate programs. Before enrolling in courses to be counted for both undergraduate and

graduate credit, an undergraduate student must be accepted into the accelerated master's program option AND receive prior approval from the History Department Head, History MEd Program Coordinator and the Graduate College (on a Mixed Credit form). The student must complete their BSEd History program and receive Missouri certification in Social Studies (9-12) to continue in the MEd History program beyond the six (6) hours earned through the accelerated master's program option.

Accelerated Admission Requirements

1. Junior standing, with an overall GPA of 3.25.
2. Major in BSEd History, having completed fifteen (15) hours in the department with a GPA in the major of 3.4.
3. Recommendation by a faculty member in the History Department.

Secondary Education: Social Science Area of Emphasis, MEd

See program requirements for the Secondary Education, MEd.

Prerequisite Social Science Requirements

A minimum of 24 undergraduate hours in Social Sciences.

Social Science Requirements

A minimum of 15 hours from Economics, Geography, History, Political Science, Psychology, & Sociology.

- Courses from one of the above disciplines **Credit Hours: 9**
- Courses from a second of the above disciplines **Credit Hours: 6**

Total Hours Required: 15

Visual Studies, MFA

Program Description

Advanced study in Visual Arts and Design with an emphasis placed on the student's individual research. The curriculum is specifically designed to be flexible to meet the individual research needs within contemporary, traditional and interdisciplinary approaches and media. The Department of Art and Design offers a wide range of facilities including graduate studios.

A variety of students with differing backgrounds and research interests is considered an important factor in the development of a scholarship community with an interest in developing original research.

Admission Requirements

Admission requires approval of a departmental entrance committee who will examine the applicant's potential for further professional success in Visual Art and/or Design and the ability of the department to support the applicant's stated path of study. For priority consideration deadlines, contact the department office.

Admission to the program is based on the following:

1. A bachelor's degree with extensive preparation in the Visual Arts or Design and at least 9 hours in art history, art theory/criticism, or a related discipline (other options exist, see notation below);
2. A completed Missouri State University Graduate Application; and
3. The following materials must be submitted:
 - portfolio should document an original body of work that demonstrates technical acuity and a clear conceptual direction for potential graduate level research presented in an appropriate digital format (pdf is preferred for still images);
 - information list for each work in the portfolio including title, dimensions, materials, and year created;
 - a 300 to 800-word statement describing the reasons and goals behind the applicant's interest in graduate study and the direction of intended research;
 - contact information (name, phone number, and email) of three professional references who can speak of the applicant's academic achievements and potential;
 - a completed Graduate Assistantship Application if prospective student would like to be considered for this award (submitted directly to the Art and Design department).

Applicants will be notified by mail once their application is complete. Students who do not meet requirement 1 listed above, but show high promise, may be admitted conditionally. Conditions for such admission may require additional coursework.

Degree Requirements Minimum Credit Hours: 60

A minimum of 60 hours of coursework is required, ordinarily distributed over six semesters and three years.

- ART 692 - Art and Theory
- ART 699 - Exploratory Graduate Studio
- ART 701 - Directed Graduate Studio I
- ART 702 - Directed Graduate Studio II
- ART 703 - Directed Graduate Studio III
- ART 704 - Directed Graduate Studio IV
- ART 705 - Interdisciplinary Graduate Critique
- ART 710 - Professional Practices
- ART 798 - Graduate Interdisciplinary Seminar
- ART 799 - Graduate Studio Thesis
- ART 797 - Teaching Practicum
- Approved Elective **Credit Hours:** 0-3

In Addition to the Above, Select 3-6 Hours From the Following Art History Courses:

- ART 671 - Islamic Art
- ART 672 - Medieval Art
- ART 675 - Art of the Renaissance
- ART 676 - Women and Art
- ART 678 - Baroque Art
- ART 680 - Modern Art
- ART 684 - Contemporary Art
- ART 685 - Art of Mesoamerica
- ART 686 - Art of Africa
- ART 687 - Art of the Americas

Students Are Encouraged

To incorporate coursework from other departments in the university as appropriate to their research. Courses that could be considered as substitutes for ART 699 and an art history elective, pending advisor approval, are listed below. Note that prerequisites may apply. Other courses could be considered on an individual basis, pending Graduate Coordinator approval.

- MED 661 - Sound Mixing
- MED 662 - Digital Filmmaking Capstone
- AND/OR**
- MED 697 - Advanced Studies in Media
- MED 681 - Media Ethics and Law
- MED 670 - Film Theory
- AND/OR**
- MED 680 - Media in Politics

Additional Degree Requirements

A student's Program of Study is subject to the approval of the Graduate Coordinator in consultation with the major professor or faculty from the area of directed research. Additional coursework may be required to accommodate undergraduate deficiencies.

A probationary review will be conducted at the end of the third semester (during ART 703) evaluating a student's progress toward his or her thesis development and a unified body of work. A less than satisfactory review could result in dismissal or additional coursework with a follow up review to assess progress.

The thesis requirement consists of the following:

1. the graduate exhibition/presentation of a substantial and accomplished body of original works of art or design during the final semester of the student's program;
2. a written document pertaining to the work exhibited/presented, the character of which is determined by the area of study;
3. a final oral examination will be taken when the student has completed the program of study and the graduate exhibition/presentation, and a copy of the written document has been distributed to each member of the supervisory committee;
4. approved documentation of the graduate exhibition/presentation is to be submitted for the record to be kept by the Art and Design department.

For the awarding of the MFA degree, the following is required:

1. satisfactory completion of all coursework (no grades lower than a "C-" in any graduate course);
2. thesis requirements, as above;
3. positive recommendation by the thesis committee.

Writing, MA

Mission

The MA in Writing pursues several objectives: to develop research methods used to study the teaching of writing or the practice of writing in business and industry; to improve students' professional writing skills; to train effective writing teachers and professional writers; to collaborate with area schools, businesses, and industry on issues related to written communication and literacy.

Program description

The 33-hour program includes a core of 18 hours and one of two tracks: (1) rhetoric and composition or (2) technical and professional writing.

Admission requirements

Due Dates: For students applying for Summer and Fall semester, priority consideration will be given to applications received by March 1; for Spring, by October 1.

Admission to the program is based on the following components and Application Requirements/Deadlines:

1. A bachelor's degree with extensive preparation in English (the course work equivalent of an English minor);
2. A minimum GPA of 3.00 overall;
3. A completed Missouri State University Graduate Application; and
4. The following materials must be submitted:
 - a. Personal Statement (a 200- to 250-word description of the reasons and goals behind your interest in English graduate studies);
 - b. At least two letters of recommendation from individuals able to speak of the applicant's academic achievements and potential;
 - c. A writing sample (a 10-15 page critical paper in English or portfolio of writing samples);
 - d. Graduate Assistantship application if the prospective student would like to be considered for this award (submitted directly to the English Department).

Applicants will be notified by mail once their application is complete. Students who do not meet 1 and 2, above, but show high promise, may be admitted conditionally. As conditions of admission, they may be required to take extra courses or make up deficiencies (including weaknesses in writing) or they may have other requirements stipulated.

Accelerated Master's requirements - available only for the MA, Writing, Technical and Professional Writing track

Admission Requirements:

1. Junior standing, with an overall GPA of 3.25 or higher;
2. Undergraduate major in Professional Writing;
3. A minimum GPA of 3.25 in all Professional Writing courses, and a minimum of 9 hours in Professional Writing with no grade below B in Professional Writing courses;
4. Recommendation from two Professional Writing faculty members.

Once accepted, students may take up to 12 credit hours at the 600 level that will apply to both their undergraduate and graduate degrees in Professional Writing. Before enrolling in a course to be counted as both undergraduate and graduate credit, undergraduate students must be accepted into the accelerated master's program and complete a Mixed Credit Form. Acceptance into the program and all approvals must be completed before the end of the Change of Schedule Period for the course(s) to apply to the accelerated degree.

Core requirements Credit Hours: 18

- ENG 700 - Introduction to Research Methods in English

- ENG 604 - Advanced Writing: Nonfiction
- ENG 628 - Rhetorics for the 21st Century
- ENG 777 - Professional Editing
- ENG 725 - Seminar: Composition and Rhetoric
- ENG 637 - Writing for Intercultural Audiences
OR
- ENG 647 - Ethics in Professional Writing
OR
- ENG 667 - Data Displays in Technical Documents

Additional degree requirements

Track Options and Requirements

The tracks described below outline a minimum of 15 additional hours of graduate-level course requirements and electives. Students should choose electives with an awareness that at least half the credit hours applied toward the 33-hour minimum must be in courses numbered 700 or above. Students must choose a program track before filing a Program of Study.

Research Requirement

A student may satisfy the research requirement by completing a thesis or by completing a degree paper deriving from an appropriate course taken to satisfy a degree requirement.

Colloquia

Students are expected to attend and participate in academic and professional activities. These may be scheduled by the department or may include university and community events (scholarly conferences, professional workshops, lectures, and presentations).

Comprehensive Examination

Graduate students in the MA in Writing must submit a portfolio of writing projects (which should include thesis or degree paper) developed during their studies. They must pass a review of this portfolio during the last semester of course work or later. Details regarding the content of the portfolio, preparation, passing criteria, and scheduling are available on the English department website.

Technical and Professional Writing Track

In addition to the core and degree requirements listed above, students choosing the Technical and Professional Writing track must complete the following courses:

- ENG 771 - Professional Writing
- ENG 774 - Professional Writing Internship
- ENG 775 - Designing Technical Documents

Choose 6 hours from the following:

- ENG 632 - Writing in the Legal Profession
- ENG 637 - Writing for Intercultural Audiences
- ENG 647 - Ethics in Professional Writing
- ENG 650 - Writing About Food
- ENG 667 - Data Displays in Technical Documents
- ENG 669 - Nonfiction Publishing
- ENG 672 - Writing Grant Proposals
- ENG 678 - Writing in the Health Professions
- ENG 679 - Writing for the Web
- ENG 684 - Topics in Professional Writing
- ENG 694 - Technical Writing Internship
- ENG 726 - Issues in Professional Writing
- ENG 770 - The Teaching of Technical and Professional Writing
- ENG 773 - Writing for the Computer Industry
- ENG 799 - Thesis
- Graduate-level courses in ENG or approved cognate **Credit Hours:** 3

Rhetoric and Composition track

In addition to the core and degree requirements listed above, students choosing the Rhetoric and Composition track must complete the following courses:

- ENG 627 - History of Rhetoric
- ENG 720 - Seminar: Composition Theory
- ENG 721 - Theory of Basic Writing

Choose 6 hours from the following:

- ENG 623 - Writing Center Theory and Practice
- ENG 629 - Composition and Rhetoric in High School and Junior College
- ENG 704 - Teaching Writing Online
- ENG 722 - Literacy Theory and Composition
- ENG 792 - Linguistics in Rhetoric and Composition
- ENG 799 - Thesis
- Graduate-level courses in ENG or approved cognate area **Credit Hours:** 3-9

Doctoral Programs

Defense and Strategic Studies, DDSS

This program operates in Fairfax, Virginia, and is certified by the State Council of Higher Education for Virginia (SCHEV).

Program Description

The Doctor of Defense and Strategic Studies (DDSS) program provides knowledge and skills in the field of international security studies with an emphasis on countering the threat posed by Weapons of Mass Destruction to U.S. and allied national security.

This program will prepare national and international security professionals to work in various settings, including civilian and military public service, non-governmental "think tanks," and commercial defense industry. Graduates specialize in various global or regional international security issues and are able to assess specific security challenges, formulate prospective options for addressing those challenges, and identify the prospective policy and other requirements needed to help implement those options to strengthen U.S. and allied security conditions.

Entrance Requirements

To be considered for admission to the Doctorate of Defenses and Strategic Studies (DDSS), a student must meet the requirements listed below.

1. Completion of the baccalaureate degree from an accredited college or university.
2. Cumulative GPA of 3.00 over the last 60 hours of academic work taken.
3. A personal philosophy statement that addresses the applicant's professional career goals and how the program will help accomplish these goals.
4. Two letters of recommendation from graduate faculty or professionals acquainted with the student's academic work or research and analytical skills.
5. A brief C.V.
6. Students for whom English is a second language must earn a minimum score of 79 (internet-based) on the Test of English as a Foreign Language (TOEFL) or a 6.0 on the International English Language Testing System (IELTS).

Retention Requirements

Consistent with Graduate College policy, students may not accumulate more than 9 hours of grades below a B- and remain in the program

Degree Requirements Credit Hours: 30 or 66

Foundation Courses Credit Hours: 36

Foundation courses may be taken from the school's master's degree program (courses listed below). Students who hold a master's degree in a related field can be admitted with advanced standing and may not be required to complete additional foundation courses.

- DSS 601 - Seminar on Nuclear Strategy and Arms Control
- DSS 632 - Seminar on International Security Affairs
- DSS 700 - Strategy and U.S. Defense Policy
- DSS 707 - Seminar on Congress, National Security, and Weapons of Mass Destruction
- DSS 710 - Seminar on International Terrorism and Security
- DSS 719 - Strategic Culture
- DSS 720 - Internship Training in DSS Policy
- DSS 721 - Missile Defense, Proliferation and Contemporary Warfare
- DSS 722 - Emerging Strategic Challenges
- DSS 723 - Counterproliferation
- DSS 725 - Seminar on Instruments of State Power
- DSS 727 - Chemical and Biological Warfare: Global and Community Perspectives
- DSS 796 - Directed Reading and Research in Defense and Strategic Studies
- DSS 797 - Special Topics

Core Courses Credit Hours: 15

- DSS 720 - Internship Training in DSS Policy
- DSS 801 - Advanced Nuclear Strategy, Deterrence and Arms Control
- DSS 832 - Advanced Survey and Writing in International Security Affairs
- 6 credits of DSS 896 - Doctoral Capstone Project: Advanced Tutorial Course on Deterrence Theory and Policy

Advanced Seminars Credit Hours: 15

Advanced seminar courses focus on application of foundational knowledge. Students work with their advisor to choose courses that are relevant for their focus of study. Course options are listed below.

- DSS 702 - Seminar on Regional Security Problems
- DSS 705 - NATO Security Issues
- DSS 708 - Seminar on Contemporary Security Issues in Russia
- DSS 713 - Intelligence, Counterintelligence, and Covert Action
- DSS 724 - Leadership in National Security Policy
- DSS 726 - Chinese Military Power
- DSS 728 - Terrorism: Advanced Research Topics
- DSS 737 - Advanced Studies in Chemical and Biological Warfare
- DSS 797 - Special Topics
- DSS 840 - Seminar on National Security Strategies

Certificates

Applied Communication Certificate

Program Description

The Graduate Certificate in Applied Communication is designed for individuals who are highly motivated to develop applied communication skills for a professional environment. Admission is competitive and meeting the minimum standards for admission will not guarantee acceptance into the certificate program.

Admission Process

Admission to the certificate program requires all of the following:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A GPA of 2.75 on a 4.00 scale for the last 60 hours of undergraduate course work or completion of 9 credit hours of graduate course work with a minimum GPA of 3.00.
3. Admission application (all materials) deadline is 35 days prior to the start of the desired beginning semester.
4. All additional University and Graduate College requirements for admission to a certificate program.

Required Courses - 12 Hours Total

Choose 4 courses (12 hours) from the list below:

- COM 711 - Conflict and Communication
- COM 717 - Communication and Diversity in the Workplace
- COM 719 - Ethical Issues in Communication
- COM 713 - Public Relations Campaigns
- COM 732 - Small Group Communication

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Choral Studies Certificate

Program Description

A non-degree-granting certificate designed to provide students aspiring toward professional career in choral music. Possible aspects of this career could include choral conducting, choral arranging and editing, ensemble singing, professional choir management, performance travel, and music publishing.

Admission Criteria

This certificate is available through audition to all persons with an undergraduate degree in music in which they earned a GPA of at least 2.75. English language proficiency as determined by International Services, or successful completion of the ELI is required.

Students who wish to pursue a certificate after earning a Master of Music degree must do so with no overlap of course content.

Students who complete some or all of the certificate with a grade of B- or better in each course may be admitted to the Master of Music program after going through the full application process. The certificate credits taken will count toward the requirements for the MM degree.

Course Requirements - Credit Hours: 15 total

Required Courses - Credit Hours: 5

2 credits from the following ensemble courses:

- MUS 661 - Men's Chorus
OR
- MUS 663 - Women's Chorus
OR
- MUS 761 - Men's chorus
OR
- MUS 762 - Choral Union
OR
- MUS 763 - Women's Chorus
OR

- MUS 768 - Chorale
- MUS 748 - Seminar: Choral Literature

Elective Courses - Credit Hours: 10

Select from the following. Other courses may be substituted with the approval of the program coordinator. No more than four (4) of the elective hours may be ensembles.

- MUS 671 - Choral Conducting Seminar
 - MUS 618 - Choral Arranging
 - MUS 626 - Advanced Arranging
 - MUS 727 - Seminar: Music Theory
 - MUS 728 - Pedagogy of Music Theory
 - MUS 653 - Voice
 - MUS 753 - Voice
 - MUS 629 - Introduction to Commercial Music
 - MUS 630 - Vocal Pedagogy and Materials
 - MUS 683 - Music of the Renaissance
 - MUS 684 - Music of the Baroque Era
 - MUS 685 - Music of the Classical Era
 - MUS 686 - Music of the Romantic Era
 - MUS 687 - Music Since 1900
 - MUS 748 - Seminar: Choral Literature
 - MUS 689 - Special Topics in Music
- Choral Ensembles:
- MUS 661 - Men's Chorus
 - MUS 663 - Women's Chorus
 - MUS 768 - Chorale

Completion Requirement

Students must have an overall GPA of 3.00 for completion of the certificate.

Conflict and Dispute Resolution Certificate

Program Description

The Certificate in Conflict and Dispute Resolution provides an 15 hour graduate-level experience for students, educators, health care workers, business people, managers, workers, or community members who are interested in dispute resolution and conflict processes. The program provides for the acquisition of knowledge and skills necessary for understanding conflict and resolving disputes. The certificate is interdisciplinary in nature and includes both theory and applied components. The 6 hours of electives allow the student to pursue study of conflict and its resolution in the context of their specific discipline or profession.

Admission Criteria

Admission to the certificate program requires the following:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A GPA of 3.00 on a 4.00 scale for the last 60 hours of undergraduate course work or completion of 9 credit hours of graduate course work with a minimum GPA of 3.00.
3. All additional University and Graduate College requirements for admission to a certificate program.

Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for admission to the certificate. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Credit Hours: 15

Required courses vary depending on if the student has previously earned Missouri State's Undergraduate Certificate in Conflict and Dispute Resolution. The requirements for those with and without the Undergraduate Certificate are described below.

Requirements Without the Undergraduate Certificate

- COM 621 - Communication, Mediation, and Negotiation
- COM 711 - Conflict and Communication
- 3 credits of COM 723 - Contemporary Topics in Conflict
- Electives in Conflict or Cognate Area. Students may take up to three (3) hours of COM 794, Conflict Internship to fulfill the elective requirement. **Credit Hours: 6 ***

Note:

* The electives component of the certificate allows students to focus on conflict processes that are specific to their professional area. These courses allow a more discipline-specific focus, and there are elective options in most disciplines. Electives will be approved by the Program Director.

Requirements With the Undergraduate Certificate

- 6 credits of COM 723 - Contemporary Topics in Conflict
- 3 credits of COM 794 - Conflict Internship
- BUS 650 - Negotiation, Mediation, and Arbitration in Business
- Electives in Conflict or Cognate Area **Credit Hours: 3 ***

Note:

* The electives component of the certificate allows students to focus on conflict processes that are specific to their professional area. These courses allow a more discipline-specific focus, and there are elective options in most disciplines. Electives will be approved by the Program Director.

Completion requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Countering Weapons of Mass Destruction (CWMD) Certificate

This program operates in Fairfax, Virginia, and is certified by the State Council of Higher Education for Virginia (SCHEV).

Program Description

The School of Defense and Strategic Studies offers a Graduate Certificate in Countering Weapons of Mass Destruction (CWMD) is intended for those who have a defined but compressed period of time for their education, yet desire advanced study of major defense and strategic issues to further their career. Prospective students may enroll in the fall, spring, or summer semester. Once admitted, they must complete 15 credit hours selected from the list below in order to receive the Certificate. Students may attend full-time (3 seminars per semester) or part-time (1 or 2 seminars per semester).

Entrance Requirements

The candidate must have a bachelor's degree and be admitted to the Missouri State University Graduate CWMD Certificate Program.

Coursework to Total 15 Hours

- DSS 601 - Seminar on Nuclear Strategy and Arms Control
- DSS 723 - Counterproliferation
- DSS 725 - Seminar on Instruments of State Power
- OR
- DSS 722 - Emerging Strategic Challenges
- DSS 727 - Chemical and Biological Warfare: Global and Community Perspectives
- OR
- DSS 737 - Advanced Studies in Chemical and Biological Warfare
- DSS 798 - Seminar on Contemporary Defense Issues
- OR
- DSS 710 - Seminar on International Terrorism and Security

Crime Prevention Certificate

Program Description

Crime Prevention is one of the most important objectives in the criminal justice system (CJS). This is a topic that spans both the public and private sectors in addition to the community. Many of the current policies in the criminal justice system work towards reducing crime by: 1) preventing it from occurring in the first place using environmental and social design (primary crime prevention), 2) focusing on high risk populations (secondary crime prevention), and 3) attempting to deter offenders from committing more crime in the future (tertiary crime prevention). This certificate focuses on the different levels of crime preventions and the evidence-based practices for their success.

Admissions Criteria

To be considered for the program, a student must have a 2.75 grade point average. Students who do not meet this criterion, but demonstrate potential for success through career experience, may be admitted at the discretion of the Certificate Advisor. Admission to this certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Credit Hours: 12

Required Courses

- CRM 720 - Crime Theory and Policy
- CRM 751 - Applied Evidence-Based Practice in Policing
- CRM 772 - Applied Evidence-Based Practices in Community Corrections
- CRM 777 - Crime Prevention in the Modern Age

Criminal Investigation Certificate

Program description

Criminal investigators require a specialized combination of knowledge, which includes a foundation in basic investigative tools and techniques, an understanding of forensic science, and knowledge regarding criminal psychology. The Graduate Certificate in Criminal Investigation prepares the student for an investigatory role with 12 credit hours of graduate coursework covering these three key areas.

Admission criteria

To be considered for the program, a prospective student must meet the admission requirements for a Graduate Certificate at Missouri State University.

Required courses - Credit Hours: 12

CRM 614, CRM 636, and CRM 682 may be taught concurrently with CRM 314, CRM 336, and CRM 382 respectively. Cannot receive credit for both CRM 614 and CRM 314, CRM 636 and CRM 336, or CRM 682 and CRM 382.

- CRM 614 - Forensic Science
- CRM 636 - Criminal Psychology
- CRM 682 - Criminal Investigation

One course from:

CRM 796 Independent Study in Criminology and Criminal Justice topic must be related to criminal investigation and approved by Criminal Investigation Certificate Coordinator.

- CRM 741 - Cybercrime and Cyber Terrorism
- CRM 773 - Offender Thinking and Decision-making
- CRM 796 - Independent Study in Criminology and Criminal Justice
- PSY 604 - Forensic Child Psychology
- PSY 617 - Psychology of Child Abuse and Exploitation

Completion requirements

Students must meet program and certificate completion requirements set forth by Missouri State University's Graduate College.

Criminal Justice Leadership and Management Certificate

Program Description

Criminal Justice agency administrators require a specialized combination of knowledge, which includes a foundation in criminal justice policy, policy analysis and research interpretation skills, knowledge of ethical leadership principles, and knowledge of management techniques and or/ financial management. The Graduate Certificate in Criminal Justice Leadership and Management prepares the student for a leadership role with courses covering these four key areas.

Admissions Criteria

To be considered for the program, a student must have a 2.75 grade point average.

Required Courses - Credit Hours: 12

- CRM 701 - Criminal Justice Policy
- CRM 715 - Leadership and Management in Criminal Justice
- PLS 778 - Ethics and Leadership in the Public Sector
- **OR**
- CRM 728 - The Ethics of Justice
- PLS 756 - Budgeting and Financial Management for State and Local Government
- **OR**
- PLS 753 - Management Techniques and Organizational Behavior

Defense and Strategic Studies Certificate

This program operates in Fairfax, Virginia, and is certified by the State Council of Higher Education for Virginia (SCHEV).

Program Description

The School of Defense and Strategic Studies offers a Graduate Certificate in Defense and Strategic Studies designed for mid-career professionals. The Certificate in Defense and Strategic Studies is intended for those already employed in the national security field, yet desire advanced study of major defense and strategic issues to further their career. Prospective students may enroll in the fall, spring, or summer semester. Once admitted, they must complete 9 credit hours selected from the course list in order to receive the Certificate. Students may attend full-time (3 seminars per semester) or part-time (1 or 2 seminars per semester).

Entrance Requirements

The candidate must have a bachelor's degree and be admitted to the certificate program.

Coursework to Total 9 Hours

- DSS 601 - Seminar on Nuclear Strategy and Arms Control
- DSS 630 - International Law and Global Security
- DSS 631 - International Negotiations
- DSS 632 - Seminar on International Security Affairs
- DSS 633 - Analysis of International Security Politics
- DSS 634 - The Geopolitics of Conflict and Accommodation
- DSS 700 - Strategy and U.S. Defense Policy
- DSS 702 - Seminar on Regional Security Problems
- DSS 703 - Science, Technology, and Defense Policy
- DSS 704 - Arms Control: Theory and Practice
- DSS 705 - NATO Security Issues
- DSS 706 - Russian Military Strategy
- DSS 707 - Seminar on Congress, National Security, and Weapons of Mass Destruction
- DSS 708 - Seminar on Contemporary Security Issues in Russia
- DSS 709 - Seminar on Space Policy and Security
- DSS 710 - Seminar on International Terrorism and Security
- DSS 711 - The Rise of the United States to Preeminence
- DSS 712 - American National Security Policy
- DSS 713 - Intelligence, Counterintelligence, and Covert Action
- DSS 714 - Seminar on Strategic Thought
- DSS 715 - Grand Strategy
- DSS 716 - Understanding Military Operations
- DSS 717 - Small Wars, Imperial Conflicts, and Guerrilla Warfare
- DSS 718 - Causes of War
- DSS 719 - Strategic Culture
- DSS 720 - Internship Training in DSS Policy
- DSS 721 - Missile Defense, Proliferation and Contemporary Warfare
- DSS 722 - Emerging Strategic Challenges
- DSS 723 - Counterproliferation
- DSS 724 - Leadership in National Security Policy
- DSS 725 - Seminar on Instruments of State Power
- DSS 726 - Chinese Military Power
- DSS 727 - Chemical and Biological Warfare: Global and Community Perspectives
- DSS 728 - Terrorism: Advanced Research Topics
- DSS 737 - Advanced Studies in Chemical and Biological Warfare
- DSS 740 - Ethics of Weapons of Mass Destruction
- DSS 796 - Directed Reading and Research in Defense and Strategic Studies
- DSS 797 - Special Topics

GPA Requirements

Students must have a B or better grade in each course.

Economic Development Certificate

Program Description

The Certificate in Economic Development provides a 12 hour graduate-level experience for people working or desiring to work in the field of economic development. This program provides a grounding in the theory and tools needed in economic development along with the opportunity to explore other policy areas that may suit their interests and career path.

The curriculum is structured around key policy and analysis involving economic development. Each course prepares students to master core issues, principles, and problem-solving approaches that can be applied to specific challenges confronting their jurisdictions or sponsoring organizations.

Admission Criteria

Admission to the certificate program requires a bachelor's degree from a regionally accredited institution of higher education, a 3.00 overall grade point average, and three letters of recommendation. Admission is open to qualified persons without regard to age, physical disability, national origin, race, religion, or gender.

Selection is made based on prior academic performance, professional accomplishments, and other indicators of the ability to successfully pursue graduate education and a professional career in public management.

Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. The Director of the MPA program will define probationary conditions and convey those to the student.

Students enrolling in this certificate as a part of the MPA program must also apply for the certificate in addition to the MPA.

Required Courses - Credit Hours: 12

Required Courses - Credit Hours: 6

- PLS 774 - Municipal Planning and Zoning
- PLS 775 - Economic Development for Local and State Governments

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- MKT 772 - Marketing Management
- ECO 600 - Fundamentals of Economics
- PLN 671 - Land Use Planning

Editing and Publishing Certificate

Program Description

This certificate will provide students an understanding of the editing and publication processes related to small press publishing, literary magazine publishing, professional editing, and the larger literary publishing industry through both classroom learning and

experience with the Department of English's Moon City Press and Moon City Review. This understanding provides a foundation for literary publication, preparing students for professional work in this field, including but not limited to large publishing houses, small independent presses, literary agenting and representation, editing and proofreading, entrepreneurship, and the non-profit arts sector.

Admission Requirements

This certificate requires a Bachelor's degree and a 3.00 GPA; this certificate also requires additional university and Graduate College requirements for admission to a certificate program.

Program Requirements - Credit Hours: 15

- ENG 640 - Small Press Production *
- ENG 651 - Literary Publication

Choose One Course From the Following:

- ENG 601 - Advanced Writing: Fiction
- ENG 604 - Advanced Writing: Nonfiction
- ENG 607 - Advanced Writing: Poetry
- ENG 701 - Graduate Fiction Workshop **
- ENG 707 - Graduate Poetry Workshop **

Choose 2 Courses From the Following:

- ENG 662 - Contemporary American Poetry/Fiction
- ENG 710 - Seminar: Fiction
- ENG 711 - Seminar: Poetry
- ENG 775 - Designing Technical Documents
- ENG 777 - Professional Editing
- ENG 786 - Seminar: Form and Theory of Prose

Note:

* Students who have taken the 500-level version of this course may choose to substitute a different course from the list of suggested elective options

** Requires permission of instructor

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Foreign Language Teaching (non-certifiable) Certificate

Program Description

The Graduate Certificate in Foreign Language Teaching is a 12-hour concentration in graduate studies focused on principles of non-native language acquisition and on pedagogical approaches to teaching foreign languages. It is designed for students interested in careers in foreign language teaching and for experienced language educators seeking professional development. This certificate does not lead to teaching certification, although classes may count toward different certification requirements. Seated courses are offered in the evening. Students may be able to complete the program entirely online.

Admission Requirements

1. A bachelor's degree in a foreign language from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university or a bachelor's degree and a score of intermediate-high or higher on the OPI (or equivalent) in any foreign language.
2. A GPA of 2.75 on a 4.00 scale for the last 60 hours of undergraduate course work or completion of 9 credit hours of graduate course work with a minimum GPA of 3.00.
3. Admission application (all materials) deadline is 35 days prior to the start of the desired beginning semester.
4. All additional university and Graduate College requirements for admission to a certificate program.

Double Counting of Coursework

Graduate certificate programs must differ from one another by at least 2 courses or 40% of the total certificate credit hours.

Required Courses

Choose 4 courses (12 hours) from the list below:

- LCR 691 - Principles of Linguistics
- LCR 695 - Principles of Second Language Acquisition
- LCR 700 - Advanced Language Teaching Methods and Technology
- LCR 706 - Materials and Assessments in Foreign Language Teaching
- LCR 724 - Seminar in Linguistics for Foreign Languages

French Certificate

Program Description

The Graduate Certificate in French is a 12-hour concentration in French graduate studies with a focus on French communicative and cultural competence. It is designed for highly motivated students seeking professional development and opportunities to increase linguistic proficiency. This certificate does not lead to teaching certification, although classes may count toward different certification requirements.

Admission Requirements

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A score of intermediate-high or higher in French on the OPI (or equivalent)
3. A GPA of 2.75 on a 4.00 scale for the last 60 hours of undergraduate course work or completion of 9 credit hours of graduate course work with a minimum GPA of 3.00.
4. All additional University and Graduate College requirements for admission to a certificate program.

Double Counting of Coursework

Graduate certificate programs must differ from one another by at least 2 courses or 40% of the total certificate credit hours.

Required Courses

- FRN 624 - Advanced Topics in Francophone Linguistics *
- FRN 690 - Advanced French Grammar
- FRN 725 - Seminar in Francophone Literature and Culture
- FRN 735 - Advanced French Proficiency

Note:

* LCR 691 (or equivalent) is a prerequisite for FRN 624

International Affairs Certificate

Program description

The Graduate Certificate in International Affairs exposes students to major theories and debates in the field and allows them to explore the key political issues facing particular world regions. It is designed for students and community members who are pursuing careers in professional areas impacted by international affairs, including business, journalism, national security, non-profit management, public administration, and public health.

Admission criteria

Admission requires a bachelor's degree from an accredited institution of higher education, with a grade point average of at least 3.0 on a 4.0 scale (or the equivalent on a different scale). Alternatively, applicants may have completed at least nine credit hours of a graduate program at Missouri State with a GPA of at least 3.0.

Required courses - Credit Hours: 9

Student must complete at least one course (3 hours) from:

- PLS 705 - Seminar in Comparative Politics
- PLS 721 - International Political Economy
- PLS 725 - International Security

- PLS 732 - International Relations in Theory and Practice
- PLS 737 - Seminar in International Organizations

Student must complete an additional two courses (6 hours) from either the list above or the list below:

- PLS 630 - Nonstate Actors in International Politics
- PLS 639 - Playing Games with the World
- PLS 644 - Government and Politics of the Middle East
- PLS 645 - Asian Politics
- PLS 646 - Political Violence and Terrorism
- PLS 648 - Latin American Politics
- PLS 649 - Nationalisms and Islamisms of the Middle East
- PLS 650 - Modern African Politics
- PLS 669 - Foreign Policies of the Middle Eastern States

Completion requirements

To complete the certificate, student must have a GPA of 3.0 on their certificate courses. In addition, no course with a grade below C will be counted toward the certificate.

Local Government Management Certificate

Program Description

The certificate in government management provides a 12 hour graduate-level experience for people working or desiring to work in the field of local government management. This program provides a grounding in the theory and tools needed in local government management along with the opportunity to explore other policy areas that may suit their interests and career path.

The curriculum is structured around key policy and analysis involving government management. Each course prepares students to master core issues, principles, and problem-solving approaches that can be applied to specific challenges confronting their jurisdictions or sponsoring organizations.

Admission Criteria

Admission to the certificate program requires a bachelor's degree from a regionally accredited institution of higher education, a 3.00 overall grade point average, and three letters of recommendation. Admission is open to qualified persons without regard to age, physical disability, national origin, race, religion, or gender.

Selection is made based on prior academic performance, professional accomplishments, and other indicators of the ability to successfully pursue graduate education and a professional career in public management.

Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. The Director of the MPA program will define probationary conditions and convey those to the student.

Students enrolling in this certificate as a part of the MPA program must also apply for the certificate in addition to the MPA.

Required Courses - Credit Hours: 12

Required Courses - Credit Hours: 6

- PLS 776 - Local Public Service Delivery
- PLS 777 - Local Government and Politics and Administration

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- PLS 760 - Management of Intergovernmental Relations
- PLS 774 - Municipal Planning and Zoning
- ACC 600 - Accounting Concepts for Managers

Music Education Certificate

Program Description

A non-degree-granting certificate designed for practicing K-12 music teachers. The certificate can be completed through online courses, on-campus courses or a combination of the two.

Admission Criteria

This certificate is available to all with demonstrated interest in music education, particularly currently employed music teachers. Admission requirements include an undergraduate degree in music in which they earned a GPA of at least 2.75, a resume, two letters of recommendation and statement of teaching and professional goals. English language proficiency as determined by International Services, or successful completion of the ELI is required.

Students who wish to pursue a certificate after earning a Master of Music degree must do so with no overlap of course content.

Students who complete some or all of the certificate with a grade of B- or better in each course may be admitted to the Master of Music program after going through the full application process. The certificate credits taken will count toward the requirements for the MM degree.

Certificate Requirements - Credit Hours: 18

Required Courses - Credit Hours: 6

- MUS 701 - Music Education Curriculum
- MUS 702 - General Music Education

Elective Courses - Credit Hours: 12

Select 12 hours from the following

- MUS 606 - Band Administration and Materials
- MUS 609 - Choral Literature and Materials for Secondary Levels
- MUS 611 - Music Education Workshop
- MUS 659 - String Pedagogy and Instrumental Literature and Materials for Elementary and Secondary Levels
- MUS 661 - Men's Chorus *
- MUS 663 - Women's Chorus *
- MUS 674 - Jazz Ensemble *
- MUS 774 - Jazz Ensemble *
- MUS 675 - Band *
- MUS 775 - Band *
- MUS 678 - University/Community Band *
- MUS 778 - University/Community Band *
- MUS 689 - Special Topics in Music
- MUS 707 - Psychology of Music
- MUS 708 - Contemporary Music Education
- MUS 725 - History and Philosophy of Music Education
- MUS 762 - Choral Union *
- MUS 768 - Chorale *
- MUS 776 - University Symphony *

Note:

*No more than two credit hours of ensembles may be counted toward the certificate.

Completion Requirement

Students must have an overall GPA of 3.00 for completion of the certificate.

Music Performance Certificate

Program Description

A non-degree-granting certificate designed to provide students aspiring toward professional music performing career opportunities to study and perform solo, chamber and large-ensemble literature without some of the academic course requirements of a master's degree.

Admission Criteria

This certificate is available through audition to all persons with an undergraduate degree in music in which they earned a GPA of at least 2.75. English language proficiency as determined by International Services, or successful completion of the ELI is required.

Students who wish to pursue a certificate after earning a Master of Music degree must do so with no overlap of course content.

Students who complete some or all of the certificate with a grade of B- or better in each course may be admitted to the Master of Music program after going through the full application process. The certificate credits taken will count toward the requirements for the MM degree.

Certificate Requirements - Credit Hours: 18

Required Courses - Credit Hours: 8

Graduate Level Applied Music - Credit Hours: 4

- MUS 649 - String (Instrument)
- MUS 651 - Piano
- MUS 652 - Organ
- MUS 653 - Voice
- MUS 655 - Woodwind
- MUS 656 - Brass
- MUS 657 - Percussion
- MUS 660 - Carillon
- MUS 749 - String (Instrument)
- MUS 751 - Piano
- MUS 752 - Organ
- MUS 753 - Voice
- MUS 755 - Woodwind (Instrument)
- MUS 756 - Brass
- MUS 757 - Percussion
- MUS 760 - Carillon

Graduate Recital - Credit Hours: 2

- MUS 798 - Graduate Recital

Ensembles - Credit Hours: 2

- MUS 661 - Men's Chorus
- MUS 663 - Women's Chorus
- MUS 762 - Choral Union
- MUS 768 - Chorale
- MUS 772 - Small Ensembles
- MUS 773 - Chamber Orchestra
- MUS 774 - Jazz Ensemble
- MUS 775 - Band
- MUS 776 - University Symphony
- MUS 778 - University/Community Band
- MUS 792 - Accompanying
- MUS 793 - Opera Workshop

Elective Courses - Credit Hours: 10

Choose 10 hours from the following courses.

Graduate Music History

- MUS 683 - Music of the Renaissance
- MUS 684 - Music of the Baroque Era
- MUS 685 - Music of the Classical Era
- MUS 686 - Music of the Romantic Era
- MUS 687 - Music Since 1900

Graduate Theory

- MUS 618 - Choral Arranging
- MUS 629 - Introduction to Commercial Music
- MUS 727 - Seminar: Music Theory
- MUS 728 - Pedagogy of Music Theory

Pedagogy

- MUS 658 - Survey of Pedagogical Methods

Ensembles

- MUS 661 - Men's Chorus
- MUS 663 - Women's Chorus
- MUS 762 - Choral Union
- MUS 768 - Chorale
- MUS 772 - Small Ensembles
- MUS 773 - Chamber Orchestra
- MUS 774 - Jazz Ensemble
- MUS 775 - Band
- MUS 776 - University Symphony
- MUS 778 - University/Community Band
- MUS 792 - Accompanying
- MUS 793 - Opera Workshop

Completion Requirement

Students must have an overall GPA of 3.00 for completion of the certificate.

Public Management Certificate

Program Description

The Certificate in Public Management (CPM) is a postbaccalaureate program designed to enable practitioners in government and non-profit organizations to acquire knowledge and skills in public administration without pursuing a full master's degree. This is an ideal academic program for individuals working in mid-level jobs who have not previously received professional training in public administration. While the focus is on the public sector, the courses teach leadership and problem solving skills that apply to the non-profit sector as well.

The CPM requires a total of 12 hours of graduate credits. The courses are the same as those offered to MPA students. The courses must be completed within four years of admission into the program. The program does not require a comprehensive examination, area of concentration, or a capstone research requirement.

Admission Deadlines

A bachelors is required for admission. Application packages should be received by the program office one month prior to the semester you wish to begin. Students may begin the Fall, Spring, or Summer semester.

Required Courses - Credit Hours: 12

- PLS 752 - Public Personnel Management
- PLS 753 - Management Techniques and Organizational Behavior
- PLS 756 - Budgeting and Financial Management for State and Local Government
- PLS 771 - Seminar in Public Administration

Completion Requirements

Students must have an overall grade point average of 3.00 for completion of the certificate program.

Public Policy Certificate

Program Description

The certificate in public policy provides a 12 hour graduate-level experience for people working or desiring to work in the field of public policy. This program provides a grounding in the theory and application of public policy along with the opportunity to explore other policy areas that may suite their interests and career path.

The curriculum is structured around key policy and analysis involving public policy. Each course prepares students to master core issues, principles, and problem-solving approaches that can be applied to specific challenges confronting their jurisdictions or sponsoring organizations.

Admission Criteria

Admission to the certificate program requires a bachelor's degree from a regionally accredited institution of higher education, a 3.00 overall grade point average, and three letters of recommendation. Admission is open to qualified persons without regard to age, physical disability, national origin, race, religion, or gender.

Selection is made based on prior academic performance, professional accomplishments, and other indicators of the ability to successfully pursue graduate education and a professional career in public management.

Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. The Director of the MPA program will define probationary conditions and convey those to the student.

Students enrolling in this certificate as a part of the MPA program must also apply for the certificate in addition to the MPA.

Required Courses - Credit Hours: 12

Required Courses - Credit Hours: 9

- PLS 673 - Policy Analysis
- PLS 762 - Public Policy and Program Evaluation
- PLS 763 - The Policy Process

Elective Courses - Credit Hours: 3

Choose 3 hours from the following courses.

- PLS 685 - Public Policy for a Global Environment
- PLS 754 - Seminar in Health Policy
- ECO 615 - Public Sector Economics

Public Safety Certificate

Program Description

The certificate in public safety provides a 12 hour graduate-level experience for people working or desiring to work in the field of public safety. This program provides a grounding in the basic services of public safety agencies and then the opportunity to explore the federal level of homeland security or exploring other complimentary disciplines that may suit their interests and career path.

The curriculum is structured around key public safety services and planning. Each course prepares students to master core issues, principles, and problem-solving approaches that can be applied to specific challenges confronting their jurisdictions or sponsoring organizations.

Admission Criteria

Admission to the certificate program requires a bachelor's degree from a regionally accredited institution of higher education, a 3.00 overall grade point average, and three letters of recommendation. Admission is open to qualified persons without regard to age, physical disability, national origin, race, religion, or gender.

Selection is made based on prior academic performance, professional accomplishments, and other indicators of the ability to successfully pursue graduate education and a professional career in public management.

Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. The Director of the MPA program will define probationary conditions and convey those to the student.

Students enrolling in this certificate as a part of the MPA program must also apply for the certificate in addition to the MPA.

Required Courses - Credit Hours: 12

Required Courses - Credit Hours: 6

- PLS 772 - Introduction to Public Safety Services
- PLS 773 - Hazard Analysis, Mitigation, and Preparedness

Elective Courses - Credit Hours: 6

Choose 6 hours from the following courses.

- PLS 719 - Strategic Planning and Organizational Imperatives in Homeland Security
- PLS 717 - Multidisciplinary Approaches to Homeland Security
- GLG 647 - Water Resources
- GRY 731 - Environmental Assessment
- CRM 740 - Foundations of Homeland Defense and Security

Screenwriting for Television and Film Certificate

Program Description

The Graduate Certificate in Screenwriting for Television and Film provides a 12-hour graduate-level experience to prepare the student's script portfolio for professional submissions. The program is designed to teach students the screenwriting craft; to develop each student's potential and to help all students find their unique style; to expose students to the concept of "workshopping pages" and giving and receiving critical input on style, writing technique and structure; and to provide insight into today's film and television market. Graduate students will complete polished drafts on multiple treatments/outlines, a short or full-length screenplay, and one to two dramatic teleplays.

Admission Criteria

To be considered for the program, a student must have a bachelor's degree with a 2.75 undergraduate GPA. Applicants must submit a writing sample of 5-10 script pages or 5-10 pages of prose.

Required Courses:

Complete at least four of the following courses (12 hours total)

- MED 660 - Beginning Screenwriting
- MED 667 - Intermediate Screenwriting
- MED 668 - Writing for Television
- MED 693 - Rewriting Features and Pilots
- MED 672 - Advanced Screenwriting

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Spanish Certificate

Program Description

The Graduate Certificate in Spanish is a 12-hour concentration in Spanish graduate studies with a focus on Spanish communicative and cultural competence. It is designed for highly motivated students seeking professional development and opportunities to increase linguistic proficiency. This certificate does not lead to teaching certification, although classes may count toward different certification requirements.

Admission Requirements:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A score of intermediate-high or higher in Spanish on the OPI (or equivalent)
3. A GPA of 2.75 on a 4.00 scale for the last 60 hours of undergraduate course work or completion of 9 credit hours of graduate course work with a minimum GPA of 3.00.
4. All additional university and Graduate College requirements for admission to a certificate program.

Double Counting of Coursework

Graduate certificate programs must differ from one another by at least 2 courses or 40% of the total certificate credit hours.

Required Courses

Choose 4 courses (12 hours) from the list below:

- SPN 610 - Advanced Translation
- SPN 624 - Advanced Topics in Hispanic Linguistics
- SPN 690 - Advanced Spanish Grammar
- SPN 725 - Seminar in Hispanic Literature and Culture
- SPN 735 - Advanced Spanish Proficiency

Note:

* MCL 691 (or equivalent) is a prerequisite for SPN 624

Teaching English to Speakers of Other Languages (TESOL) Certificate

Program Description

The Graduate Certificate in TESOL provides a 15-hour graduate-level experience for people who already hold a bachelor's degree (or higher) in some area and who are interested in teaching English to adults, either abroad or in the U.S. The program includes courses in applied linguistics as well as in pedagogical concerns. (The certificate is not Missouri Department of Elementary And Secondary Education (DESE) K-12 endorsement for teaching in state-funded schools but will provide a foundation for those credentials. For information on the DESE requirements, see below).

Admission Criteria

To be considered for the program, a student must have a bachelor's degree from a regionally accredited college or university, with at least a 3.00 undergraduate grade point average and no grade lower than a "B" in any graduate courses (if any have been taken). The student must submit a Graduate Application. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program. Students who are already graduate students at MSU may apply to the certificate program as well (except for students in the M.A. in English with an emphasis in TESOL program).

Required Courses - Credit Hours: 15

- ENG 691 - Linguistic Theory *
- ENG 688 - Sociolinguistics for Language Teaching
- ENG 695 - Principles of Second Language Acquisition

Note:

* If a student has already taken an introduction to linguistics at the undergraduate level, he/she may, with the approval of the certificate advisor, substitute a different course for ENG 691 from the list of elective courses below, or another graduate course in linguistics with the consent of the certificate advisor.

Two Courses From:

- ENG 605 - Methods in Teaching English to Speakers of Other Languages (TESOL)
- ENG 690 - Grammatical Analysis
- ENG 696 - Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL)

Transferred Course Work

Students may transfer one course taken from a different regionally-accredited institution into the certificate program, with the approval of the certificate advisor and following MSU's policy on transfer credit. (See the Graduate College section on Transfer Credit for these policies).

Double Counting Courses

Students may not count the same course more than once within the certificate program itself. Students may count toward the graduate certificate in TESOL any of the courses listed above that have been taken as part of the M.A. in English or the M.A. in Writing. Double counting in other programs may be allowed with the consent of the certificate advisor and the student's major advisor.

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

DESE English Language Learners (ELL) Endorsement

A student can receive the Missouri Department of Elementary and Secondary Education (DESE) English Language Learners (K-12) endorsement (sometimes known as TESOL certification):

1. Completing a bachelor's degree;
2. Holding a Missouri teaching certificate in any other area (e.g. elementary education, secondary English);
3. Completing the following professional education requirements (may be taken as part of bachelor's degree): SPE 310 or SPE 715; LTC 474 or LTC 710 ; LTC 574 or LTC 640 ;
4. Completing the course requirements outlined below. It is recommended, though not required, that the student have course work in a foreign language or have a foreign cultural experience.

DESE ELL Endorsement Requirements - Credit Hours: 21

- ENG 690 - Grammatical Analysis
- ENG 691 - Linguistic Theory
- ENG 688 - Sociolinguistics for Language Teaching
- ENG 695 - Principles of Second Language Acquisition
- ENG 696 - Materials and Assessment in Teaching English to Speakers of Other Languages (TESOL)
- OR
- ENG 796 - Seminar: Assessment in Teaching English to Speakers of Other Languages (TESOL)
- ENG 605 - Methods in Teaching English to Speakers of Other Languages (TESOL)
- 3 credits of
- ENG 697 - Practicum in Teaching English to Speakers of Other Languages (TESOL)
- OR
- 3 credits of
- ENG 797 - Advanced Practicum in Teaching English to Speakers of Other Languages (TESOL)

Note:

All students must have a 2.75 GPA or higher (Missouri State and transfer grades combined) in the certification subject area. Students must earn a "C" or higher in all courses counting toward state certification.

Teaching of College Composition Certificate

Admission Criteria

A Bachelor's degree is required. All additional University and Graduate College requirements for admission to a graduate certificate program.

Required Courses - Credit Hours:12

Choose One 3 Hour Teaching Course From List Below:

- ENG 629 - Composition and Rhetoric in High School and Junior College
- ENG 703 - Practicum in Teaching Composition
- ENG 704 - Teaching Writing Online
- ENG 770 - The Teaching of Technical and Professional Writing

Choose One 3 Hour Writing Course From List Below:

- ENG 601 - Advanced Writing: Fiction
- ENG 604 - Advanced Writing: Nonfiction
- ENG 607 - Advanced Writing: Poetry
- ENG 631 - Writing for Teachers
- ENG 639 - Advanced Writing for Children and Young Adults
- ENG 664 - Place-Conscious Reading and Writing
- ENG 672 - Writing Grant Proposals
- ENG 700 - Introduction to Research Methods in English

Choose One 3 Hour Theory Course From List Below:

- ENG 623 - Writing Center Theory and Practice
- ENG 627 - History of Rhetoric
- ENG 628 - Rhetorics for the 21st Century
- ENG 691 - Linguistic Theory
- ENG 695 - Principles of Second Language Acquisition
- ENG 720 - Seminar: Composition Theory
- ENG 721 - Theory of Basic Writing
- ENG 722 - Literacy Theory and Composition
- ENG 725 - Seminar: Composition and Rhetoric
- ENG 792 - Linguistics in Rhetoric and Composition

Choose One 3 Hour Elective Graduate-Level English Course:

Students may not count the same course more than once within the certificate program itself. Students may count any of the courses listed above that have been taken as part of the requirements for the M.A. in English, the M.A. in Writing, or the M.S. in English Education.

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Teaching of Writing K-12 Certificate

Program Description

The Graduate Certificate in the Teaching of Writing K-12 provides a 15-hour graduate-level experience for educators (postbaccalaureate or those who already have a MA or are enrolled in MA degree programs) wishing to meet professional development requirements in the teaching of writing. Students will gain a deep understanding of the teaching of writing through a combination of working on their own writing, reflecting on their teaching practices, and reading current research in writing pedagogy, composition, and literacy. Following the National Writing Project model of "teachers teaching teachers," participants will share successful writing activities through demonstrations and develop and implement curriculum. They will formulate research questions about their teaching practices and document the effects of their instruction by collecting and analyzing student work. Upon completion of the certificate, educators are ideally suited to fulfill leadership roles in collaborative teaching projects and in professional development offerings related to improving writing instruction.

This certificate is a Missouri State University Certificate and does not meet DESE Certification requirements for teaching.

Admission Criteria

To be considered for the program, a student must submit a Graduate Application; have successfully completed the Invitational Summer Institute (ENG 730 or the equivalent at a National Writing Project site) with a "B" grade or better; and hold a Bachelor's degree in English or related field. Students who hold a Bachelor's degree in a discipline other than English may be admitted to the GCTW program if they can demonstrate a commitment to teaching writing within their own discipline as a central component of their pedagogy. Such a commitment can be demonstrated in the statement of purpose or letters of recommendation.

The following additional required application materials must also be submitted:

- A Statement of Purpose, approximately 500-750 words describing academic and/or professional objectives, teaching philosophy, approach and demonstrating a commitment to teaching writing; and
- Two letters of recommendation from people who can speak to your academic and/or professional experience and expertise.

Required Courses: Credit Hours: 15

Core Courses: Choose 9 hours from:

- ENG 730 - Ozarks Writing Project
- ENG 631 - Writing for Teachers
- ENG 720 - Seminar: Composition Theory
- ENG 732 - Seminar: Issues and Trends in English Education

Additional Courses: Choose 6 hours from:

- ENG 604 - Advanced Writing: Nonfiction
- ENG 623 - Writing Center Theory and Practice
- ENG 629 - Composition and Rhetoric in High School and Junior College
- ENG 631 - Writing for Teachers *
- ENG 639 - Advanced Writing for Children and Young Adults
- 3 credits of ENG 665 - Literature and Language Workshop
- ENG 672 - Writing Grant Proposals
- ENG 678 - Writing in the Health Professions
- ENG 679 - Writing for the Web
- ENG 684 - Topics in Professional Writing

- ENG 704 - Teaching Writing Online
- ENG 720 - Seminar: Composition Theory *
- ENG 721 - Theory of Basic Writing
- ENG 725 - Seminar: Composition and Rhetoric
- ENG 732 - Seminar: Issues and Trends in English Education *
- ENG 770 - The Teaching of Technical and Professional Writing

Note:

* Cannot be counted as an "additional course" if taken as a core class.

Completion requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Technical and Professional Writing Certificate

Program Description

The graduate-level certificate is a 12-hour program for anyone with an undergraduate degree in any discipline who is interested in strengthening their writing skills and ability to analyze audiences and communicate complex information.

Admission Criteria

- Bachelor's degree and a 3.00 GPA.
- All additional University and Graduate College requirements for admission to a certificate program.

Required Courses - Credit Hours: 12

Required Courses - Credit Hours: 6

- ENG 771 - Professional Writing
- ENG 777 - Professional Editing

Electives - Credit Hours: 6

- ENG 604 - Advanced Writing: Nonfiction
 - ENG 672 - Writing Grant Proposals
 - ENG 678 - Writing in the Health Professions
 - ENG 679 - Writing for the Web
 - ENG 773 - Writing for the Computer Industry
 - ENG 775 - Designing Technical Documents
 - ENG 627 - History of Rhetoric
- OR**

- ENG 628 - Rhetorics for the 21st Century

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

United States History Certificate

Program Description

The Department of History offers a 18-hour Graduate Certificate which provides specialized courses in US History that emphasize the use of primary and secondary sources in exploring major historical events and time periods, such as the American Revolutionary War, Women's History and American Education.

Admission Requirements

For consideration for admission into the Graduate Certificate in United States History program applicants must meet the following requirements:

1. Applicants must meet the minimum GPA of the Graduate College (2.75 on a 4.00 scale) to be considered for admission. Meeting the minimum standards is required for admission but does not guarantee admission. Candidates with a GPA of 3.00 and above are generally preferred.
2. Applicants with 24 undergraduate credit hours in history are preferred. However, applicant with a relevant background in associated fields from the social sciences, humanities, and/or education will also be considered. The department also considers applications from in-service certified teachers.

Potential applicants who do not meet these criteria may contact the Graduate Director. It is possible to take undergraduate credits through Missouri State University to make up any deficits in either coursework or GPA requirements.

Application Process and Materials

All applicants must apply via the GradCAS system. Application materials should not be sent to the department directly. The department can only consider completed applications that include the following materials.

- Curriculum Vitae: Applicants must include an up-to-date Curriculum Vitae (CV). This document should include a list of the applicant's degree(s) as well as their GPA for each of their qualifications.
- Transcripts: Applicants must hold an undergraduate degree and submit the relevant transcripts to the GradCAS system. For the purpose of the application process, applicants may submit unofficial copies of their transcript(s) to the GradCAS system. Successful applicants will be required to submit official transcripts to the Graduate College within the first semester of their studies. If the applicant has credits from multiple institutions, the applicant must submit documentation for all institutions attended.
- Three Letters of Recommendation: Applicants must have three letters of recommendation. While academic references are preferred, applicants may also submit professional references, especially if the applicant is applying after a significant hiatus in their studies. Recommendations must be submitted via the GradCAS system. Please note that the GradCAS system allows students to send out a link directly to their referee, which allows their referee to submit their letter of recommendation directly to the applicant's file.
- Writing Sample: Applicants must submit a writing sample of approximately 2,000 words. Writing samples must be submitted via the GradCAS system. It is recommended, although not required, that this writing sample is a piece of

academic writing (preferably from the discipline of history), such as an essay or an excerpt from a longer work (such as a capstone project or thesis). For applicants who do not have an example of their academic writing, a sample of professional writing that the applicant feels accurately reflects their abilities may be submitted.

- Evidence of Teaching Certification (if applicable): Applicants with a teaching certificate in social studies from a US state or territory should submit a copy of their certification via the GradCas system.

Should applicants have any technical issues pertaining to GradCas, they should contact Graduate Admissions.

Dates of Consideration

For full consideration, complete applications must be received by March 1 for summer or fall admission and October 1 for spring admission. Applications received after this deadline will be considered dependent on course availability.

Late admissions are processed in April for entry in the summer and the fall semesters and November for entry in the spring semester. If the department has already admitted a full cohort of students by that time, late applications will be automatically moved to the subsequent semester's application pool.

Continuing Studies to the MA Level

Upon completing the Graduate Certificate in History, students who maintain a 3.0 GPA and obtain a B grade or above in HST 701 - Historiography and Historical Method may apply directly to the History MA program. Courses taken as part of the Graduate Certificate in History can be counted towards the completion of the MA in History.

Current History MA Students

Students studying towards a History MA degree may add the certificate program to their course of study. Courses counted towards the History MA program can also count towards the Certificate. Students must be formally admitted into both the MA and the certificate program.

Required Courses

- HST 701 - Historiography and Historical Method

3 Hours - Required US History Primary Source Seminar:

- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

3 Hours - Required US History Reading Seminar:

- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar

U.S. History Requirements Credit Hours: 9

9 credit hours of US History courses at either the 600 or 700 level. Students may take complete additional US History Primary Source Seminars and/or US Reading Seminars to meet this requirement. Eligible courses:

- HST 609 - Indian History
- HST 611 - The Plains Indians
- HST 615 - American Environmental History
- HST 616 - American Religious History
- HST 617 - Legal and Constitutional History of the United States
- HST 618 - Colonial America
- HST 619 - The American Revolution
- HST 621 - Early American Republic
- HST 623 - Nineteenth Century America
- HST 624 - Civil War and Reconstruction
- HST 625 - Gilded Age/Progressive Era America, 1865-1920
- HST 628 - U.S. History Since 1945
- HST 631 - African American Leaders and Movements
- HST 636 - History of Missouri
- HST 637 - History of the American West
- HST 638 - History of the American South, 1607-Present
- HST 698 - Internship in Public History
- HST 720 - American History Readings Seminar
- HST 724 - American Empire Readings Seminar
- HST 725 - Ozarks History Readings Seminar
- HST 730 - American History Research Seminar
- HST 783 - Women's History Primary Source Seminar
- HST 784 - The American Revolution Primary Source Seminar
- HST 785 - The Civil War in Missouri Primary Source Seminar
- HST 786 - American Social History Primary Source Seminar
- HST 787 - American Education Primary Source Seminar

Completion Requirements

Students must have an overall GPA of 3.00 for completion of the certificate program.

World History Certificate

Program Description

This 18-credit certificate provides specialized courses in world history that emphasize the use of primary and secondary sources in exploring major historical time periods and geographical regions, such as Latin America, Europe, East Asia, Africa, and the Middle East.

Entrance Requirements

For consideration for admission into the MA History program, applicants must meet the following requirements:

1. Applicants must meet the minimum GPA of the Graduate College (2.75 on a 4.00 scale) to be considered for admission. Meeting the minimum standards is required for admission but does not guarantee admission. Candidates with a GPA of 3.00 and above are generally preferred.
2. Applicants with 24 undergraduate credit hours in history are preferred. However, applicants with a background in associated fields from the social sciences, humanities, and/or education will also be considered. The department also considers applications from in-service certified teachers.

Potential applicants who do not meet these criteria may contact the Graduate Director. It is possible to take undergraduate credits through Missouri State University to make up any deficits in either coursework or GPA requirements.

Application Process and Materials

All applicants must apply via the GradCAS system. Application materials should not be sent to the department directly. The department can only consider completed applications that include the following materials.

- **Curriculum Vitae:** Applicants must include an up-to-date Curriculum Vitae (CV). This document should include a list of the applicant's degree(s) as well as their GPA for each of their qualifications.
- **Transcripts:** Applicants must hold an undergraduate degree and submit the relevant transcripts to the GradCAS system. For the purpose of the application process, applicants may submit unofficial copies of their transcript(s) to the GradCAS system. Successful applicants will be required to submit official transcripts to the Graduate College within the first semester of their studies. If the applicant has credits from multiple institutions, the applicant must submit documentation for all institutions attended.
- **Three Letters of Recommendation:** Applicants must have three letters of recommendation. While academic references are preferred, applicants may also submit professional references, especially if the applicant is applying after a significant hiatus in their studies. Recommendations must be submitted via the GradCAS system. Please note that the GradCas system allows students to send a link directly to their referee, which allows their referee to submit their letter of recommendation directly to the applicant's file.
- **Writing Sample:** Applicants must submit a writing sample of approximately 2,000 words. Writing samples must be submitted via the GradCAS system. It is recommended, although not required, that this writing sample is a piece of academic writing (preferably from the discipline of history), such as an essay or an excerpt from a longer work (such as a capstone project or thesis). For applicants who do not have an example of their academic writing, a sample of professional writing that the applicant feels accurately reflects their abilities may be submitted.
- **Evidence of Teaching Certification** (if applicable): Applicants with a teaching certificate in social studies from a US state or territory should submit a copy of their certification via the GradCas system.

Should applicants have any technical issues pertaining to GradCas, they should contact Graduate Admissions.

Dates of Consideration

For full consideration, complete applications must be received by March 1 for summer or fall admission and October 1 for spring admission. Applications received after this deadline will be considered, dependent on course availability.

Late admissions are processed in April for entry in the summer and the fall semesters and November for entry in the spring semester. If the department has already admitted a full cohort of students by that time, late applications will be automatically moved to the subsequent semester's application pool.

Graduate Record Examination

Please note that Missouri State University History Department **DOES NOT** require the Graduate Record Examinations (GRE).

Program requirements - Credit Hours: 18

World History Core Courses Credit Hours: 9

- HST 701 - Historiography and Historical Method
- HST 792 - World History Primary Source Seminar

3 Hours - Required World History Reading Seminar:

- HST 740 - European History Readings Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 790 - World History Readings Seminar

World History Additional Course Requirements Credit Hours: 9

9 credit hours of World History courses at either the 600 or 700 level. Students may complete additional World History Primary Source Seminars, World History Reading Seminars, and/or World History Research Seminars to meet this requirement. Eligible courses:

- HST 614 - 17th-19th Century British Atlantic
- HST 629 - Plagues and Pandemics
- HST 632 - History of Ancient Egypt
- HST 641 - The Ancient Near East to 1200 BCE
- HST 642 - Ancient Israel
- HST 645 - Medieval Europe
- HST 648 - The Renaissance
- HST 649 - The Reformation
- HST 653 - History of Europe in the 19th Century, 1815-1918
- HST 655 - Europe in the 20th Century
- HST 659 - Germany, 1815-Present
- HST 663 - History of Fascism
- HST 664 - History of the Holocaust
- HST 666 - Victorian and Edwardian England
- HST 671 - China in the Twentieth Century
- HST 672 - Gender and Sexuality in Modern East Asia
- HST 674 - Jordan Archaeology Education Abroad
- HST 682 - Mexico from Colony to Nation
- HST 688 - Twentieth-Century Mexico
- HST 710 - Ancient History Research Seminar
- HST 740 - European History Readings Seminar
- HST 750 - European History Research Seminar
- HST 760 - Latin American History Readings Seminar
- HST 770 - Ancient History Readings Seminar
- HST 775 - Middle Eastern History Readings Seminar
- HST 780 - World History Research Seminar

- HST 790 - World History Readings Seminar
- HST 792 - World History Primary Source Seminar

McQueary College of Health and Human Services

Academic Units

Schools

- School of Anesthesia
- School of Mental and Behavioral Health
- School of Nursing

Departments

- Department of Biomedical Sciences
- Department of Communication Sciences and Disorders
- Department of Kinesiology
- Department of Occupational Therapy
- Department of Physical Therapy
- Department of Physician Assistant Studies
- Department of Public Health and Sports Medicine

Centers/Clinics

- Learning Diagnostic Clinic
- MSUCare
- Physical Therapy Clinic
- RStats Institute
- Speech-Language-Hearing Clinic

Contact

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Master's Programs

Athletic Training, MATC

Program Description

The Master of Athletic Training program is a professional degree designed to prepare students to become certified athletic trainers and function as health care providers within an evolving health care delivery system. The program is accredited by the Commission on Accreditation for Athletic Training Education (CAATE).

Admission Requirements

There are two admission options for the Master of Athletic Training program. Regardless of the admission pathway, to be considered for admission to program, a prospective student must apply to the program via the Athletic Training Centralized Application Services (ATCAS).

Sports Medicine pre-athletic training admission option:

1. Submission of an application to ATCAS that must include a personal statement not to exceed three pages; documented evidence of a minimum of 10 hours of observation of athletic trainers in at least two different areas of practice; two letters of recommendation (one letter from an academic source and one from an athletic trainer that supervised the observation hours);
2. A cumulative grade point average (GPA) of no less than 3.00 on a 4.00 scale;
3. International applicants whose native language is not English and do not have a U.S. degree are required to have a score on the TOEFL of 79 or higher (internet-based test) or an IELTS score of 6.0 or higher. The requirement for a TOEFL or IELTS score may be waived for applicants who meet one of the following: (i) are native English speakers or (ii) have completed a minimum of 60 semester credit hours from an accredited college or university in the United States.
4. Completion of the MSU Sports Medicine pre-athletic training pathway Pre-AT admission option requirements include successful completion of all program requirements and a minimum of 102 credit hours that include all MSU general education requirements and all MAT prerequisites as listed below:
 - Care and Prevention or Introduction to Sports Medicine

- College Algebra or higher
- Statistics
- Physics with lab
- Introductory Chemistry with lab
- Introductory Psychology
- General Biology/Biomedical Sciences with lab: 4-5 hrs.
- Human Anatomy with lab: 4 hrs.
- Human Physiology with lab: 4 hrs.
- Medical Terminology
- Exercise Physiology: 3-4 hrs.
- Biomechanics/Kinesiology
- Nutrition
- Provide evidence of current Emergency Cardiac Care (ECC) certification at the Basic Life Support/Professional Rescuer level or beyond.

Post-baccalaureate admission option:

1. Submission of an application to ATCAS that must include a personal statement not to exceed three pages; documented evidence of a minimum of 10 hours of observation of athletic trainers in at least two different areas of practice; two letters of recommendation (one letter from an academic source and one from an athletic trainer that supervised the observation hours);
2. A cumulative grade point average (GPA) of no less than 3.00 on a 4.00 scale;
3. International applicants whose native language is not English and do not have a U.S. degree are required to have a score on the TOEFL of 79 or higher (internet-based test) or an IELTS score of 6.0 or higher. The requirement for a TOEFL or IELTS score may be waived for applicants who meet one of the following: (i) are native English speakers or (ii) have completed a minimum of 60 semester credit hours from an accredited college or university in the United States.
4. Possession of a baccalaureate degree from an accredited college or university prior to matriculation. The undergraduate major may be in any field, but students must complete the following prerequisites prior to entering the program in the summer:
 - Care and Prevention or Introduction to Sports Medicine
 - College Algebra or higher
 - Statistics
 - Physics with lab
 - Introductory Chemistry with lab
 - Introductory Psychology
 - General Biology/Biomedical Sciences with lab: 4-5 hrs.
 - Human Anatomy with lab: 4 hrs
 - Human Physiology with lab: 4 hrs.
 - Medical Terminology
 - Exercise Physiology: 3-4 hrs.
 - Biomechanics/Kinesiology
 - Nutrition
 - Provide evidence of current Emergency Cardiac Care (ECC) certification at the Basic Life Support/Professional Rescuer level or beyond.

Once accepted to the program, all students must:

1. Follow the Graduate College's procedures to activate their MSU student records.
2. Provide evidence of current physical examination including two negative PPD skin tests at least one week apart, one negative blood test, or one negative chest X-ray for tuberculosis. Evidence of appropriate follow up from an individual testing positive for TB must be provided. Matriculating students must also demonstrate evidence of good physical health and have up-to-date immunizations (MMR, tetanus, a complete Hepatitis B series, and any other vaccinations required by clinical sites).
3. Provide signed technical standard form that documents capacity for performance of the technical functions and tasks required of an athletic trainer.

4. Follow program provided instructions to complete a fingerprinted background check, a 10-panel drug test, and OIG check.

***Students who fail these checks or procedures will be subject to further review by the Master of Athletic Training Program Selection Committee. This may result in dismissal from the program.**

5. Adhere to the Program Code of Honor and the National Athletic Trainers' Associations Code of Ethics; students will respect the rights and dignity of all individuals.
6. Enroll on a full-time basis and progress through the program with their class.

Probationary Admission to the Program

Probationary admission may be granted to an applicant that does not meet one or more of the above program admission requirements.

1. During the probationary period, the student must work with their advisor and the program director to complete the missing requirement(s) by the end of the first summer session.

Progression and Retention Requirements

After admission into the Master of Athletic Training program, a student must achieve the following for progression in the program:

1. Remain in compliance with all Master of Athletic Training, MCHHS and Graduate College policies.
2. Receive no more than 15 semester hours of graduate work below a grade of "B-", no course with a grade "C-" or below may be applied towards the Master of Athletic Training. Furthermore, a graduate student becomes ineligible for graduate study if more than 15 semester hours of "C+" or lower are earned in graduate courses taken in the degree program.
3. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of health care professionals.
4. Demonstrate acceptable professional progression in application of skills and knowledge during didactic and clinical experiences.
5. Maintain current NATA, MAATA, and MoATA membership.
6. Maintain current liability insurance.
7. Maintain current Emergency Cardiac Care (ECC) certification at the Basic Life Support/Professional Rescuer level or beyond.

Students who fail to meet the retention criteria may:

1. Be placed on academic or clinical probation in the Master of Athletic Training program, or
2. Be dismissed from the program.

Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission into the Master of Athletic Training program. Students have the right to follow the University's appeal process on any disciplinary sanction received.

The Master of Athletic Training Program faculty will retain the right to consider mitigating circumstances relative to all program requirements and may alter one or more of these requirements for admission and program progression. Should a student's academic sequence be interrupted for any reason, that individual must meet with the Master of Athletic Training Program faculty to determine the course of action. This decision will be on an individual basis, taking the situation and circumstances into consideration.

Students should refer to the Missouri State University Sports Medicine and Athletic Training *Handbook for Professional Athletic Training Students* for additional policies and procedures of the Sports Medicine and Athletic Training Department.

Degree Requirements Credit Hours: 61 Minimum

1. **Academic Advisor.** Graduate students are assigned an advisor at the time of admission. If desired, the student may select a different advisor once fully matriculated into the program. This occurs most often when a research topic is chosen and it is appropriate for a different faculty member to direct that project. The role of the graduate advisor is to:
 - Assist the student in the selection of course work for his/her graduate program;
 - Advise and assist the student in completion of all Missouri State University and departmental requirements for degree.

It is extremely important that students have early contact with their advisor and gain advisor approval before registering for classes. The advisor is a key person in helping individuals plan their graduate program, ensuring that classes fit the program, planning an appropriate class sequence, and providing other input that ensures a student is successful in their graduate program. All degree-seeking students must have advisor release prior to registering.

Core Course Credit Hours: 61

- ATC 601 - Foundations of Athletic Training
- ATC 602 - Foundations of Therapeutic Intervention
- ATC 604 - Clinical Skills in Athletic Training
- ATC 622 - Athletic Training Practicum I
- ATC 623 - Patient Evaluation I
- ATC 631 - AT Integrated Lab I
- ATC 633 - Therapeutic Interventions I
- ATC 640 - Evidence-Based Practice
- ATC 653 - Patient Evaluation II
- ATC 663 - Therapeutic Interventions II
- ATC 671 - AT Integrated Lab II
- ATC 682 - AT Practicum II
- 3 credits of ATC 711 - Problem Based Practice
- ATC 712 - Athletic Training Leadership Concepts and Application
- ATC 713 - AT Practicum III
- ATC 724 - AT Practicum IV
- ATC 732 - Research Methods for the Health Professions
- ATC 734 - AT Program Management and Professional Development
- ATC 741 - Therapeutic Interventions III
- ATC 747 - Medical Conditions in Athletic Training
- ATC 752 - Pharmacological Issues in Athletic Training
- ATC 773 - Athletic Training Seminar
- ATC 784 - AT Practicum V
- ATC 791 - AT Research Appraisal and Project

Comprehensive Examination

A comprehensive examination administered during the student's final year of course work must be passed by the candidate before a degree will be granted.

Athletic Training, MS

Program Description

The Master of Science in Athletic Training degree is designed to prepare certified athletic trainers to function in advanced athletic training roles within an evolving health care delivery system. Students will explore topics directly related to the program's point of distinctiveness: Advanced Clinical Skills in Rehabilitation and Athletic Training Leadership.

Admission Requirements

Completed applications will be reviewed beginning December 1st for admission the following fall, and will continue until the class is filled. An individual wishing to become a candidate for the MSAT degree must complete the online GradCAS application. Full details of applying to graduate programs at Missouri State can be found at Graduate Application. Admission of students for the MSAT program is selective and competitive due to limited resources. Student not accepted into the program may apply for the next application deadline. See admission processes and requirements in Graduate College section of the Graduate Catalog.

Full Admission to the MSAT Program

Full admission to the MSAT program will be based on:

1. Eligible for acceptance into the Graduate College at Missouri State University.
2. A cumulative GPA of no less than 3.00 on a 4.00 scale in the last 60 hours of college course work attempted. Consideration may also be given to an applicant whose GPA falls below the minimum if a strong GRE score has been earned or if other evidence of potential for academic success in graduate education can be presented. Graduate work will be considered on an individual basis.
3. Eligible for the BOC or an equivalent athletic training credential (e.g., Canadian Certified Athletic Therapist).
4. Licensure as an Athletic Trainer in good standing in Missouri or eligible for licensure in Missouri.
5. A baccalaureate degree from an accredited college or university - including a Statistical Methods course (IPE 381, PSY 200 or equivalent).
6. Applicants must have the capacity for performance of the technical functions and tasks required of an athletic trainer. Students must complete and submit the technical standards form to the MSAT program director.

Retention Requirements

After admission into the MSAT program, a student must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 9 semester hours of graduate work below a grade of "B", and no hours of graduate work below a "C".
2. Demonstrate acceptable professional progression in application of skills and knowledge.

Students who fail to meet the retention criteria may:

1. Be placed on academic or clinical probation in the MSAT program, or be dismissed from the program, based on the judgment of the majority of the MSAT ranked and clinical faculty.
2. Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission into the MSAT program. Students have the right to follow the University's appeal process on any disciplinary sanction received.
3. Students should refer to the Missouri State University Sports Medicine and Athletic Training *Handbook for Graduate Athletic Training Students* for additional policies and procedures of the School of Health Care Professions.

Degree Requirements Credit Hours: 36 Minimum

1. **Academic Advisor.** Graduate students are assigned an advisor at the time of admission. If desired, the student may select a different advisor once fully matriculated into the program. This occurs most often when a research topic is chosen and it is appropriate for a different faculty member to direct that project. The role of the graduate advisor is to:
 - Assist the student in the selection of course work for his/her graduate program;
 - Evaluate transfer credits as acceptable for meeting requirements;
 - Recommend acceptance or rejection of all graduate course work toward the program of study as shown in the student's degree audit; and
 - Advise and assist the student in completion of all Missouri State University and departmental requirements for degree.

It is extremely important that students have early contact with their advisor and gain advisor approval before registering for classes. The advisor is a key person in helping individuals plan their graduate program, ensuring that classes fit the program, planning an appropriate class sequence, and providing other input that ensures a student is successful in their graduate program. All degree-seeking students must have the advisor complete an electronic release prior to registering.

Core Course Credit Hours: 36

- ATC 610 - Leadership Theory and Issues in Athletic Training
- ATC 612 - Human Movement
- ATC 620 - Leadership Concepts in Athletic Training
- ATC 630 - Leadership Practicum
- ATC 632 - Manual Therapy Techniques
- ATC 640 - Evidence-Based Practice
- ATC 710 - Seminar in Athletic Training **Must repeat to 2 hours.**
- ATC 723 - Movement Pattern Assessment
- ATC 732 - Research Methods for the Health Professions
- ATC 733 - Corrective Exercise Techniques/Movement Pattern Interventions
- ATC 743 - Advanced Therapeutic Interventions
- ATC 791 - AT Research Appraisal and Project
- ATC 797 - Non-thesis Project
- RCH 710 - Statistics for the Health Professions
- Electives - approved by advisor **Credit Hours: 2**

Elective Courses

Students must work directly with their advisor and committee to determine which elective courses should be completed to strengthen their plan of study and complement their non-thesis project. Courses must be approved by the student's committee to be counted toward the degree completion.

Research Requirement

Completion of a non-thesis project approved by the advisor or thesis committee.

Non-thesis Project. Three (3) credit hours in ATC 797 - Non-thesis Project will count toward a degree. A formal oral presentation of the project is required. The seminar paper must be approved by the student's Advisory Committee before the degree is granted.

Comprehensive Examination

A comprehensive examination administered during the student's final semester of course work must be passed by the candidate before a degree will be granted.

Behavior Analysis and Therapy, MS

Program Description

The Master of Science degree in Behavior Analysis and Therapy is a joint effort between the School of Mental Health and Behavioral Sciences and the School of Special Education, Leadership and Professional Studies. The coursework consists of 27 credit hours of classroom work and 6 credit hours of practicum work. Also, students will complete an empirically-based 6 credit thesis project as a culminating experience. Successful completion of the program will result in having met the course sequence and supervised practicum criteria to set for the national certification examination and become a Board Certified Behavior Analyst. A unique feature of the program is the specialized training opportunities for those who will be working within school settings. Students who complete this program will be trained to be experts in applied behavior Analysis so to (1) employ research based instructional strategies for special populations (specifically students with Autism Spectrum Disorders) in clinical, school and home based settings and (2) to become competent scientist-practitioners and researchers in experimental and applied behavioral science.

Admission to our Master's program is **very competitive**. Hence, the **application deadline is February 15th**. All application materials, including recommendation letters, should be submitted by February 15th.

Admission Requirements

To be considered for admission into the Behavior Analysis and Therapy program students must meet the following requirements:

1. Completion of a bachelor's degree from a regionally accredited undergraduate university.
2. Three (3) letters of recommendation.
3. Statement of interest in the program.
4. Maintained a cumulative grade point average (GPA) of 3.25 in undergraduate and graduate work and a 3.25 in major field.
5. Applicants with a Psychology major must have maintained a 3.25 in all psychology coursework and completed at least 20 semester hours or 30 quarter hours of psychology, including coursework in statistics and research methods.
6. Applicants with an Education major with an emphasis in Special Education must have maintained a 3.25 GPA in the professional education courses and the certificate subject area of Special Education.
7. All applications to the graduate program will be required to complete a Family Care Safety Registry background check. If you are a Missouri resident and have not completed the Family Care and Safety Registry (FCSR) form, please do so now.

Accelerated Master's Degree Option

Before enrolling in a course to be counted as both undergraduate and graduate credit and to count a course toward the Master's degree, an undergraduate student must be accepted into the accelerated program and receive prior approval from the graduate program advisor, the School Director of Mental Health and Behavioral Sciences, and the Dean of the Graduate College. Enrollment in these courses must be done by using a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the courses. See the Graduate College for further information.

Accelerated Option Admission Requirements

1. Junior standing, with an overall GPA of 3.25 or better

2. Three (3) letters of recommendation.
3. Statement of interest in the program.
4. Acceptance of the applicant by the graduate faculty under the accelerated masters option

Accelerated Option Mixed Credit Options

If accepted to the accelerated program, up to 12 hours of course work may apply to both the undergraduate and graduate degrees, including, but not limited to:

- PSY 614 - Introduction to Applied Behavior Analysis
- PSY 747 - Single Subject Research Design in Applied Behavior Analysis
- PSY 757 - Observational Methods and Functional Assessment
- PSY 761 - Ethical and Professional Issues
- PSY 777 - Conceptual Foundations of Applied Behavioral Science

Degree Requirements - 42 hours total

Required Courses Credit Hours: 36

- PSY 602 - Learning Theories
- PSY 614 - Introduction to Applied Behavior Analysis
- SPE 626 - Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders
OR
- PSY 757 - Observational Methods and Functional Assessment
- PSY 747 - Single Subject Research Design in Applied Behavior Analysis
- PSY 761 - Ethical and Professional Issues
- PSY 770 - Behavioral Systems Analysis
- PSY 777 - Conceptual Foundations of Applied Behavioral Science
- 3 credits of PSY 797 - Directed Research
OR
- 3 credits of SPE 710 - Problems in Special Education
- 6 credits of PSY 796 - Practicum
OR
- 6 credits of SPE 791 - Clinical Practicum for Individuals with Autism and Challenging Behavior
- 6 credits of PSY 799 - Thesis
OR
- 6 credits of SPE 799 - Thesis
OR

Elective Courses: Select Two of the Following Courses Credit Hours: 6

- SPE 618 - Application of Applied Behavior Analysis and Interventions in Applied Settings
- SPE 626 - Applied Behavioral Analysis for Developmental Disabilities and Autism Spectrum Disorders
- SPE 627 - Research-Based Strategies for Individuals with ASD
- PSY 629 - Psychological Tests and Measurements
- 3 credits of PSY 695 - Specialized Topics in Psychology

- PSY 745 - Statistics and Research Design
- PSY 767 - Behavior Disorders of Childhood
- SPE 780 - Impact of Contemporary Issues and Diversity in Special Education

Thesis Option

Students will complete three (3) hours for PSY 797 - Directed Research and six (6) hours of PSY 799 - Thesis.

Board Certified Behavior Analyst

Students who decide to pursue Board Certified supervised practicums should consult early (the first semester) with their respective Psychology or Special Education advisor to arrange opportunities and to apply for Board Certified supervised practicum placement. Students who are interested in obtaining certification must ensure that the practicum courses meet the Behavior Analyst Certification Board requirements (e.g., supervision by a Board Certified Behavior Analyst, allocation of hours to a variety of professional activities, record keeping, etc.). It is possible that students who are destined for a Ph.D. in Behavior Analysis would not choose to seek Board Certified supervised practicums, but rather they would focus on basic and/or applied research practicums.

Biomedical Sciences, MS

Program Description

The graduate program in Cell and Molecular Biology is designed for students preparing for entry into doctorate or health professional programs, or for expanding career opportunities in the biotechnology, biopharmaceutical, health science research, bioinformatics, and genomics sectors. The program offers students with biological or biochemical preparation to increase knowledge in the molecular biosciences and provides initial or additional experiences using the biotechnologies emerging from the rapidly-growing disciplines in cell and molecular biology. The development of laboratory research skills occurs in a laboratory-focused curriculum that has a health and human emphasis.

Program Objectives

1. To educate students at the graduate level in modern concepts and methodologies of cell and molecular biology.
2. To build upon the student's foundation of knowledge in cell and molecular biology through enhanced exposure to course, laboratory, and research opportunities.
3. To enhance the student's ability to carry out independent research in cell and molecular biology.

Entrance Requirements

Admission to the program requires a strong science and mathematics background identical to that required of a student completing the undergraduate program in cell and molecular biology. In addition, admission to the program requires evidence that the applicant will be able to successfully complete a rigorous graduate program in the sciences at a high level of performance. Entrance into the program requires completion of the following.

1. Two semesters of organic chemistry
2. Two semesters of physics

3. A course in calculus
4. A bachelor's degree from a Missouri State University recognized accredited college or university and a grade point average (GPA) of at least 3.00 on a 4.00 scale, overall, or for the last 60 hours
5. Applicants must have:
 - a. an official transcript including all undergraduate work
 - b. three letters of recommendation
 - c. GRE scores
 - d. a statement of research interest

Applicants will be evaluated for admission based upon their submitted materials. By the end of the first semester, candidates must be accepted into a research laboratory by a member of the Graduate Faculty who becomes the student's advisor.

Accelerated Master's Degree Option

Majors in cell and molecular biology may be accepted into the Master of Science in Biomedical Sciences program after admission requirements for the accelerated master's option are met. Once accepted for early admission, up to 12 credit hours of approved 600 and 700-level coursework may be counted toward both the Bachelor of Science and the Master of Science degree programs. Other required 600-level courses in the master's program that are taken by the undergraduate student, but not included in the accelerated option, maybe waived on the master's degree program by the student's graduate advisor if the required courses were taken less than four years previously and the student earned at least a grade of B or better in those courses. Additional graduate coursework to replace waived courses may be needed to meet the 32 hours degree requirement. Accelerated option students must enroll in BMS 730 each semester.

The accelerated option allows biomedical science majors who are interested in biomedical research to complete the requirements for the Master of Science degree in two semesters and a summer rather than the typical four semesters and a summer. Contact the program director in the School of Health Sciences for information and guidelines.

Before enrolling in each course to be counted as both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and complete a mixed credit form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Requirements for the Accelerated Master's Option

1. Junior standing and an overall GPA of 3.40 or better
2. Completion of BMS 110, BMS 231, BMS 321; CHM 160, CHM 170, CHM 175, CHM 310 with a GPA of 3.40 or better
3. Undergraduate laboratory research experience is strongly recommended before applying
4. Applicants must submit:
 - a. an official transcript including all undergraduate work
 - b. three letters of recommendation, one written by the future graduate advisor formally accepting the student into their research laboratory.
 - c. GRE scores
 - d. a statement of research interest
5. Acceptance of the applicant by the graduate faculty in cell and molecular biology under the accelerated master's option

Degree Requirements

The program requires completion of a minimum of 32 semester hours and includes the following.

Required Core Courses and Research Credit Hours: 24

- BMS 622 - Molecular Cell Biology
- BMS 701 - Research in the Biomedical Sciences
- BMS 730 - Current Literature Topics
- BMS 798 - Research

Choose One of the Following Research Options:

- BMS 798 - Research **AND**
- BMS 799 - Thesis
- **OR**
- BMS 797 - Non-Thesis Project **AND**
- Additional Courses Additional Advisor Approved Hours (may include 1 additional hours of BMS 798) **Credit Hours: 7**

Track: Credit Hours: 8-9

Choose one track below:

Cell and Molecular Biology Track

- BMS 625 - Molecular Biology

Techniques Course Credit Hours: 2 or 3

Choose one from:

- BMS 658 - Recombinant DNA and Protein Techniques
- BMS 629 - Molecular Genetics
- BMS 640 - Biotechnology

Electives Credit Hours: 2-4

Choose from:

- BMS 688 - Histology
- BMS 635 - Signal Transduction
- BMS 631 - Cell Biology of Cancer

Anatomy and Physiology Track

Choose 8 hours from

- BMS 642 - Physiology of Human Organ Systems
- BMS 645 - Clinical Gross Anatomy
- BMS 661 - Medical and Pathologic Physiology
- BMS 665 - Human Cardiopulmonary Physiology

- BMS 667 - Physiology of Exercise Metabolism
- BMS 669 - Neurobiology
- BMS 670 - Principles of Pharmacology
- BMS 673 - Endocrine Physiology
- BMS 682 - Embryology
- BMS 688 - Histology
- BMS 707 - Medical Human Anatomy
- BMS 717 - Medical Human Anatomy and Radiology
- BMS 726 - Advanced Topics in Cell and Molecular Biology
- BMS 727 - Human Gross Anatomy
- BMS 728 - Human Neurophysiology and Anatomy
- BMS 752 - Medical Physiology

Note:

1. **Statistics.** The candidate must enroll in an approved graduate-level statistics course if a course in statistics is not a part of their previous academic record.
2. **Research.** All candidates (thesis and non-thesis options) must satisfactorily complete a research requirement of at least 3 hours by enrolling in BMS 798. Thesis option candidates may apply an additional 3 hours of BMS 798 and a maximum of 6 hours of BMS 799 toward the 700-level requirement for the degree. Non-thesis option candidates may not apply more than 4 hours of BMS 798 and may not apply BMS 799 toward the degree.
3. **700-level courses.** At least 16 hours of course work must be 700 level or above.
4. **Comprehensive Examination.** The candidate must pass a written exam taken in the third semester of graduate study and an oral examination administered by the departmental cell and molecular biology graduate faculty.
5. Students must earn at least a C grade in all courses. Any grade of less than C will result in the dismissal of the student from the program.

Counseling, MS

Program Description

The Counseling program grants the Master of Science degree in Counseling with options in school counseling and clinical mental health counseling. Students interested in public school settings must either have a valid Missouri teaching certificate, or complete additional teaching course work, to be eligible for state certification as professional school counselors. The School Counseling (SC) option program requirements fulfill the professional counseling course requirements for both elementary (K-8) and secondary (7-12) school counselor certification in the State of Missouri. The Clinical Mental Health (CMHC) counseling option requirements fulfill the professional counseling course work requirements for licensure as a Licensed Professional Counselor (LPC) in the State of Missouri (The LPC also requires 3000 hours of additional post-master's supervised experience). Students who elect to complete either the School Counseling option may also meet the education requirements to apply for LPC licensure.

In accordance with standards set forth by the Council for Accreditation of Counseling and Related Educational Programs (CACREP), the foundational knowledge required of counselors is arranged in the following eight common core areas:

1. Professional Counseling Orientation and Ethical Practice
2. Social and Cultural Diversity
3. Human Growth and Development
4. Career Development
5. Counseling and Helping Relationships
6. Group Counseling and Group Work

7. Assessment and Testing
8. Research and Program Evaluation

The graduate programs in Counseling further the public affairs mission of Missouri State University in many ways. Some examples include: providing over a dozen intentional activities to foster cultural competence, including several cross-cultural experiences; engaging the community through service-learning practicums in the City Center Counseling Clinic, internships and other means; and offering courses in ethics and leadership and opportunities for leadership roles.

Graduate Counseling Program Admission Requirements

Admission to the Counseling program is selective. Minimum admission requirements and application materials include the following.

1. Completed Bachelor's degree from an accredited institution.
2. Cumulative undergraduate GPA of 2.75 or higher, or 3.00 for the last 60 hours of course work.
3. Completed Application for Graduate Admission.
4. Completed Counseling Admission Application.
5. Official MAT or GRE test score reports (no cutoff scores) - waived if undergraduate GPA is 3.0 or higher; or a Master's degree.
6. Three letters of reference, on school forms.
7. Two official copies of transcripts showing your bachelor's degree and any course work taken since then (transcripts must include the last 60 hours of credit).

Applications will be reviewed by a committee of faculty, and a subset of applicants, selected upon the basis of credentials and references, will be invited for an interview on campus, after which applicants will be selected for admission. Applicants will be ranked by the admissions committee and selected applicants will be invited for admission into either the CMHE or SC program options.

We have moved to a cohort system to allow students to progress through the program more smoothly and predictably. This means that Fall admissions are the primary (but not sole) time to admit students to the program. Students are encouraged to select either the full-time cohort or the part-time cohort, depending on their needs and desires. Approximately 60-70 students will be selected for admission each year, distributed among the two option areas.

Selection for admission is not based solely on academic credentials, but also upon the faculty's assessment of candidates' personal development, interpersonal relationship skills, emotional and psychological maturity, and potential for professional growth and success. These include the following professional dispositions: Openness to diverse others, being non-judgmental, comfort with ambiguity, openness to feedback, openness to change, self-awareness, and empathy. The small group interview interactions provide opportunities for this assessment, and allow potential candidates to assess their goodness of fit with the Counseling profession and our programs.

Retention Requirements

All Counseling students must obtain a 3.00 GPA in all courses required for the Master of Science degree in Counseling. In addition to academic standards, students are expected to conform to the professional and ethical standards of the profession throughout their programs. Each student's academic and professional performance and progress in the program will be reviewed periodically by the faculty, who will provide feedback to the student. Students whose performance or progress is unsatisfactory may be allowed to continue under a remedial, probationary status, or dismissed from the program. Students may appeal unsatisfactory review outcomes or dismissal through the school, college and university grievance procedure.

To enroll in Practicum (COU 777) students must apply for and receive School approval and permission. Upon completion of prerequisites (COU 703, COU 705, COU 708, or COU 710 and COU 711, COU 714, and/or COU 751), students may apply for

approval to enroll in the Counseling Practicum course (COU 777). Practicum is a review of progress checkpoint, during which faculty will review each student's performance in prerequisites, and determine his/her readiness to take Practicum. If students are not considered to be ready, faculty will provide specific feedback concerning what is needed to further prepare them. Upon approval, students may enroll in Practicum (COU 777), by permission only.

Upon the successful completion of the Counseling Practicum (COU 777), School Counseling students complete K-12 School Counseling Internship (COU 791). Clinical Mental Health Counseling students complete Mental Health Counseling Internship (COU 785). Students are also required to obtain and maintain their own professional liability insurance while enrolled in all Practicum courses and during Internships.

All students are required to complete a 48 hour professional counseling core and a minimum of 12 credit hours in one of two counseling options: (a) School Counseling or (b) Clinical Mental Health Counseling. Students in each option will complete additional requirements as specified below and may complete additional courses as electives. Students interested in K-12 School Counseling certification should complete the School Counseling option.

Total required hours for each option area are:

- School Counseling: 60 hrs
- Clinical Mental Health Counseling: 60 hrs

Counseling Core

- COU 701 - Assessment and Testing for Counselors
- COU 703 - Professional Orientation and Ethical Practice in School and Mental Health Counseling
- COU 705 - Orientation to Personal and Professional Development in Mental Health and School Counseling
- COU 707 - Human Growth and Development
- COU 708 - Play Therapy and Child Counseling Techniques
- COU 710 - Counseling and Helping Relationships
- COU 711 - Counseling and Helping Relationships Lab
- COU 714 - Social-Cultural Diversity in Counseling
- COU 716 - Adolescent and Young Adult Counseling in School and Mental Health Settings
- COU 720 - Substance Use and Addiction Issues in Counseling
- COU 724 - Assessment and Diagnosis
- COU 733 - Couple and Family Counseling
- COU 751 - Theories and Techniques of Counseling
- COU 752 - Career Development
- **OR**
- COU 754 - Counseling for Post-Secondary and Career Readiness K-12
- COU 756 - Group Counseling and Group Work
- **OR**
- COU 757 - Group Counseling Through Play
- COU 768 - Crisis Counseling and Disaster Mental Health Response
- COU 777 - Counseling Practicum
- COU 794 - Introduction to Research and Program Evaluation in Counseling
- COU 765 - Research and Program Evaluation Seminar in Counseling

Total Credit Hours: 48

School Counseling Option

- Core Credit Hours **Credit Hours:** 48
- COU 704 - Introduction to School Counseling
- 3 credits of COU 791 - K-12 School Counseling Internship
- COU 785 - Mental Health Counseling Internship OR an additional 3 credits of COU 791
- Counseling Electives **Credit Hours:** 3

Total Credit Hours: 60

Clinical Mental Health Counseling Option

- Core Credit Hours **Credit Hours:** 48
- COU 709 - Introduction to Mental Health Counseling
- 6 credits of COU 785 - Mental Health Counseling Internship
- Counseling Electives **Credit Hours:** 3

Total Credit Hours: 60

Other Courses

Courses that students may choose from to get to the 3-4 credit hours of required electives can include:

- Any course in the two counseling option tracks
- Any course in EdS, Special Education and Assessment degree not otherwise listed above
- COU 700 - Problems in Counseling
- COU 753 - Analysis of Childhood Learning and Adjustment
- COU 766 - Psychopharmacology for Counselors
- COU 787 - Advanced Play Therapy Practicum
- COU 789 - Advanced Level: Play Therapy Supervisor
- COU 795 - Topics in Counseling
- COU 799 - Thesis

Note:

For students interested in school counselor certification who do not have a teaching degree and certificate, additional course work in teaching will be required in the following areas: Psychology of the Exceptional Child, Teaching Methods/Practices and Classroom Management. These courses are not part of the degree program, but are required for certification in Missouri.

Degree Requirements

Research Requirement

The research requirement is met through completion of either COU 765 - Research and Program Evaluation Seminar in Counseling), which shall require an extensive paper or major creative work, or COU 799 - Thesis.

Comprehensive Requirements

A four-hour, standardized, national Counselor Preparation Comprehensive Examination must be passed before a degree will be granted. Students should have completed the majority of course work, and all courses in the eight CACREP common counseling core content areas previously specified, prior to taking the exam. The Counseling Program will determine passing scores, based on national and local norms, for each administration. If permission is obtained, students who fail the exam may retake it when next offered. Students failing the comprehensive examination three times may be dismissed from the program, upon a vote of the program faculty. In addition to the Comprehensive Exam, the student will complete a portfolio as described above.

Health Promotion and Wellness Management, MS

Program Description

The Master of Science in Health Promotion and Wellness Management is a 36 hour interdisciplinary program. It is designed to provide preparation for students from diverse backgrounds in health, human services and business. The curriculum integrates knowledge and skills from behavioral psychology, health education and promotion, public health, contemporary health issues, and organizational theory. The result is a competency-based, multi-disciplinary academic preparation for professionals dedicated to assuming leadership and program planning, implementation and evaluation positions within the health and wellness industry. Graduates have gone on to work in a number of different settings including universities, for-profit and non-profit organizations, health departments, community centers, fitness centers, hospitals and clinics and many more.

Curricular activities are complemented by research opportunities with our graduate faculty and in the community. Diverse practical opportunities are provided throughout the coursework, during the culminating research experiences and during the internship.

The Public Affairs mission (and the three pillars of Ethical Leadership, Cultural Competence and Community Engagement) is exemplified throughout the program coursework but put into practice for each student during the 6-credit/420 contact hour internship experience.

Entrance Requirements

1. Completion of a baccalaureate degree from a regionally accredited college or university.
2. Cumulative GPA of 2.80 on a 4.00 scale in undergraduate work.
3. A two page maximum statement of professional experience, goals and research interest.
4. Prerequisite courses: 6 hours. Students entering the program should have a undergraduate courses in statistics and introductory psychology. A student who does not meet these criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit and accepted on a probationary status.

Accelerated Master's Degree Option

Students enrolled in undergraduate programs may be accepted into the Master of Science in Health Promotion and Wellness Management program after admission requirements for the accelerated master's option are met. Once accepted, up to 12 credit hours of approved 600 and 700-level coursework may be counted toward both the Bachelor of Science and the Master of Science degree programs.

The accelerated option allows students who are interested in health promotion and wellness management to complete the requirements for the Master of Science degree in three semesters and a summer rather than the typical four semesters and a summer. For more information and guidelines, contact the Health Promotion and Wellness Management program director.

Before enrolling in each course and for courses to be counted as both undergraduate and graduate credit, an undergraduate student must complete a Mixed Credit Form. If a student wishes to complete more than six credits of mixed credit, they must first be admitted into the accelerated master's program. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Requirements for the Accelerated Master's Option

1. Senior standing and an overall GPA of 3.2 or better.
2. Completion of an undergraduate course in statistics and introductory psychology. A student who does not meet these criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit.

Degree Requirements Credit Hours: 36 Minimum

Required Core Credit Hours: 15

- PBH 760 - Research Methods for the Health Professions
- OR
- KIN 700 - Research Methods in Kinesiology
- HLH 710 - Introduction to Health Promotion and Wellness Management
- HLH 750 - Programming Approaches in Wellness/Health Promotion
- HLH 760 - Health Promotion Planning
- PBH 730 - Statistics for the Health Professions
- OR
- KIN 705 - Applied Statistics in Kinesiology

Electives Credit Hours: 9

Students will work with their advisor and/or program director to determine the most appropriate elective courses. Elective courses must be numbered 600-level or above. Students may explore graduate certificates to fulfill the elective credits when appropriate.

Internship Credit Hours: 6

Supervised work in an approved health promotion education/promotion/care setting. As a culminating experience, the internship is crucial to the program. Students must complete a minimum of 420 contact hours and 6 credit hours.

The internship experience is an integral part of this major and should be planned (in consultation with the program director) in advance of the semester in which the student desires to register for the experience. Specific internship application materials are required and are provided to the student by the program director.

- 6 credits of HLH 791 - Wellness Internship

Research Credit Hours: 6

*If the student does not complete the thesis within 6 registered credits, the student will be required to maintain active enrollment in 1 credit hour/semester of HLH 799 until the thesis is completed or until the student has surpassed the eight-year period in which students are allowed to complete the degree.

- 6 credits of HLH 799 - Thesis *
- OR**
- 3 credits of PBH 790 - Independent Study in Public Health **AND**
Completion of 600-level or above course selected with advisor - **3 credits**

Comprehensive Examination

A written comprehensive examination (administered during the student's last academic semester) must be passed by the candidate before the HPWM degree will be granted.

Kinesiology, MS

Program Description

The Master of Science in Kinesiology is a 36-hour program that allows students to choose their area of emphasis as either (1) sports and human performance or (2) sport pedagogy. It is designed to provide an in depth and hands-on analysis for the exercise and movement science, health and physical education, and sports medicine graduates allowing them to select specific coursework that best prepares them for career placement in various fields such as, but not limited to: exercise practitioner, research scientist, teaching in educational or clinical settings (i.e. biomechanics, exercise physiology, health, strength and conditioning, etc.)

Admission Requirements

1. A bachelor's degree in health, kinesiology, physical education, or a related field from an accredited university
2. Cumulative GPA (of all coursework) of 3.00 on a 4.00 scale
3. A statement of purpose describing: (a) academic/professional experience and interests, (b) research experience and interest, (c) career goals
4. Submission of a professional curriculum vitae or resume

Accelerated Option

Determined on an individual basis with prior approval from the department head of the undergraduate program, graduate program coordinator, and graduate college, current Missouri State University undergraduate students may apply to begin taking graduate level coursework as they concurrently work to complete their undergraduate degree. If accepted, graduate courses chosen from the approved 600 level course list may be counted toward both their undergraduate and graduate degrees. A maximum of 12 credit hours may be counted as mixed-credit and will be included in the overall graduate grade point average.

Candidates for this option must have:

1. Junior-level standing (60+ credit hours already earned)
2. An overall undergraduate GPA of 3.25 or better
3. A supportive recommendation from the students undergraduate advisor

4. Acceptance of applicant by a graduate faculty member in Kinesiology who agrees to serve as the students graduate mentor
5. Acceptance of the applicant by the graduate faculty in Kinesiology under the accelerated masters option

Course Requirements Credit Hours: 36

Required Core Courses Credit Hours: 18

- KIN 700 - Research Methods in Kinesiology
- KIN 645 - Perceptual and Motor Development
- KIN 705 - Applied Statistics in Kinesiology
- KIN 785 - Psychology of Sport and Physical Activity

Research Requirement

- KIN 791 - Graduate Internship

Choose One of the Following Research Options:

- KIN 795 - Research Project **AND**
- 3 hour KIN elective
- **OR**
- 6 credits of KIN 799 - Thesis

Sport and Human Performance Track Credit Hours: 18

- KIN 755 - Fitness as Preventive Medicine
- KIN 760 - Applied Biomechanics of Human Movement
- KIN 762 - Applied Exercise Physiology

Choose 9 Hours of Electives From the Following:

- KIN 650 - Organization and Administration for Kinesiology Professionals
- KIN 667 - Physical Activities for the Aging Adult
- KIN 668 - Adapted Physical Education
- KIN 669 - Health Appraisal and Exercise Testing Techniques
- KIN 733 - Current Problems in Sports Administration
- KIN 735 - Administration of School Physical Education and Athletic Programs
- KIN 737 - Curriculum Designs in Physical Education
- KIN 759 - Contemporary Health Problems
- KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs
- KIN 781 - Contemporary Issues in Physical Education
- KIN 791 - Graduate Internship
- 3 credits of KIN 797 - Graduate Seminar
- HLH 682 - Motivational Interviewing for Health Professionals
- SPR 615 - Risk Management for Sport and Recreation Agencies

- SPR 623 - Administration of Sport and Recreation Agencies

Sport Pedagogy Track Credit Hours: 18

- KIN 735 - Administration of School Physical Education and Athletic Programs
- KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs
- KIN 781 - Contemporary Issues in Physical Education

Choose 9 Hours of Electives From the Following:

- KIN 650 - Organization and Administration for Kinesiology Professionals
- KIN 667 - Physical Activities for the Aging Adult
- KIN 668 - Adapted Physical Education
- KIN 669 - Health Appraisal and Exercise Testing Techniques
- KIN 733 - Current Problems in Sports Administration
- KIN 737 - Curriculum Designs in Physical Education
- KIN 739 - Principles of Sports Management
- KIN 755 - Fitness as Preventive Medicine
- KIN 759 - Contemporary Health Problems
- KIN 760 - Applied Biomechanics of Human Movement
- KIN 762 - Applied Exercise Physiology
- KIN 791 - Graduate Internship
- 3 credits of KIN 797 - Graduate Seminar
- HLH 682 - Motivational Interviewing for Health Professionals
- SPR 615 - Risk Management for Sport and Recreation Agencies
- SPR 623 - Administration of Sport and Recreation Agencies
- SPR 651 - Outdoor Leadership

Nursing, MSN

Program Description

The School of Nursing offers a Master of Science in Nursing (MSN) program for baccalaureate prepared registered nurses with options of Practice Leadership, Adult Gerontology-Acute Care Nurse Practitioner, Family Nurse Practitioner, and Psychiatric-Mental Health Nurse Practitioner. The Master's-prepared nurse assumes pivotal roles to improve the healthcare quality of vulnerable populations and reduce healthcare disparities.

The Practice Leadership option prepares nurses at an advanced level to lead healthcare teams and apply quality improvement principles across multiple settings and populations to meet the challenges of dynamic healthcare environments.

The Adult Gerontology-Acute Care Nurse Practitioner (AGACNP) option prepares nurses at an advanced level to assess, diagnose, treat, educate, and manage patients who are adults with acute, critical, and complex chronic physical and mental illnesses across the entire adult age spectrum from young adults (including late adolescents) to adults and older adults (including frail older adults).

The Family Nurse Practitioner (FNP) option prepares nurses at an advanced level to assess, diagnose, treat, educate, and manage patients throughout the lifespan as a health care provider.

The Psychiatric-Mental Health Nurse Practitioner (PMHNP) option prepares nurses at an advanced level to assess, diagnose, treat, educate, and manage acute and chronic patients' mental health needs across the lifespan as a health care provider.

Accreditation

The Master of Science in Nursing program at Missouri State University is accredited by the Commission on Collegiate Nursing Education (www.aacnursing.org/CCNE).

Application Process

1. Submit an application to Nursing CAS with all required documentation, including transcripts, and references. The application fee does not guarantee acceptance into the desired program of your choosing.
2. Submit transcripts of all completed academic coursework. MSN applicants must have a cumulative GPA of 3.25 (on a 4.00 scale) for the last 60 hours of course work attempted. Students who have less than a 3.25 GPA must submit verbal, quantitative, and analytical scores on the Graduate Record Examination General Test (GRE) (minimum Verbal: 150, Quantitative: 145, Analytical Writing: 3.5).
3. Submit proof of completion of all prerequisite courses: undergraduate human pathophysiology, nursing research, health assessment, healthcare informatics and graduate level inferential statistics with a grade of "C" or higher before the program begins. Admission will be contingent on the student completing prerequisite courses prior to enrolling in MSN courses.
4. Submit evidence of a completed clinical practice experience that equates with one year minimum (two or more preferred) of full-time experience for program. Exceptions considered on individual basis.

Accelerated Master's Program

The accelerated Master of Science-Practice Leadership program will be available to eligible MSU BSN-C students. Up to 12 credits applied to the undergraduate degree may be used to satisfy graduate credit.

Before enrolling in a course that will apply to both the undergraduate program and the master's program an undergraduate student must:

1. Be accepted into the accelerated program.
2. Receive prior approval from the graduate program director, department head, and Dean of the Graduate College. This is done by using a Mixed Credit Form.

Admission requirements

1. Junior standing.
2. Minimum 3.25 GPA.

Credit Course Options

Course Code	Course Title	Equivalent Course
NUR 772	Research Methods for the Health Professions	NRS 357
NUR 711	Advanced Roles and Leadership	NRS 306
NUR 733	Advanced Physical Assessment and Health Promotion	NRS 342
NUR 740	Advanced Pathophysiology	NRS 335

NUR 763	Advanced Pharmacology	NRS 338
RCH 710	Statistics for the Health Professions	Elective

Degree Requirements 36 to 55 hours required

NP Core Courses Credit Hours: 35

- NUR 703 - Population Health: A Local to Global Perspective
- NUR 710 - Clinical Epidemiology
- NUR 711 - Advanced Roles and Leadership in Nursing
- NUR 734 - Advanced Physical Assessment and Clinical Reasoning
- NUR 761 - Advanced Pharmacotherapeutics and Prescriptive Practices for the Advanced Practice Nurse
- NUR 765 - Applications of Advanced Pathophysiology
- NUR 772 - Research Methods for the Health Professions
- NUR 790 - Advanced Practice Practicum
- NUR 797 - Capstone Project
- NUR 824 - Health Policy to Improve Health Disparities

Adult Gerontology-Acute Care Option Courses Credit Hours: 20

- NUR 729 - Acute Care Treatment Modalities I
- NUR 735 - Acute Care Treatment Modalities II
- NUR 745 - Acute Care I
- NUR 755 - Acute Care II
- NUR 775 - Acute Care III

Family Nurse Practitioner Option Courses Credit Hours: 18

- NUR 730 - Family Practice I
- NUR 750 - Family Practice II
- NUR 770 - Family Practice III

Psychiatric-Mental Health Nurse Practitioner Option Courses Credit Hours: 18

- NUR 731 - Psychiatric-Mental Health Practice I
- NUR 751 - Psychiatric-Mental Health Practice II
- NUR 771 - Psychiatric-Mental Health Practice III

Practice Leadership Option Courses Credit Hours: 36

Note: Students in the Practice Leadership option do not complete the NP Core Courses.

- NUR 703 - Population Health: A Local to Global Perspective
- NUR 710 - Clinical Epidemiology

- NUR 711 - Advanced Roles and Leadership in Nursing
- NUR 733 - Advanced Physical Assessment and Health Promotion
- NUR 740 - Advanced Pathophysiology
- NUR 763 - Advanced Pharmacology
- NUR 772 - Research Methods for the Health Professions
- NUR 789 - Organizational Leadership
- NUR 791 - Practice Leadership Practicum I
- NUR 792 - Practice Leadership Practicum II
- NUR 793 - Practice Leadership Clinical Immersion
- NUR 797 - Capstone Project
- NUR 824 - Health Policy to Improve Health Disparities

Retention & Persistence Requirements

Maintain a GPA of 3.00, with no more than one course with a grade of "C", and no course with a grade of "D" or lower. Receive a "pass" in all clinical evaluations.

Nutrition and Dietetics, MS

Program Accreditation

The Missouri State University Master of Science in Nutrition and Dietetics Program has been granted Full Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). ACEND is the Academy of Nutrition and Dietetics' accrediting agency for education programs preparing students for careers as registered dietitian nutritionists or nutrition and dietetic technicians, registered. ACEND serves and protects students and the public by assuring the quality and continued improvement of nutrition and dietetics education programs. Programs meeting those standards are accredited by ACEND.

Program goals

1. Program graduates will be competent for practice as entry-level registered dietitian nutritionists.
2. Program graduates will demonstrate life-long learning skills which will enhance the nutrition and dietetic profession and demonstrate leadership in the field of nutrition and dietetics.

Program Description

The Master of Science in Nutrition and Dietetics (MSND) program provides knowledge and skills in the dietetics field with an emphasis on population health. This program will prepare dietetic professionals to work at various settings: community and government agencies, medical care facilities, and educational institutions. Graduates specialize in nutrition and dietetics of various population health issues, are able to assess population health needs, and design, implement and evaluate programs, systems or environments to aid in improving the health of diverse groups of population.

Admission Requirements

Requirements for Non-Registered Dietitian Nutritionists

1. Evidence of meeting the minimum academic requirements from an ACEND-approved Didactic Program in Dietetics by a "Verification Statement" or "Declaration of Intent to Complete Degree" and/or ACEND-approved "Minimum Academic Requirements" within five years of application.
2. Completion of the baccalaureate degree from an accredited college or university.
3. Cumulative GPA of 3.00 over the last 60 hours of academic work taken.
4. Completed application form.
5. A personal philosophy statement addressing the applicant's professional career goals and how the MSND program will help accomplish these goals, in addition to discussing the applicant's strengths and areas of improvement.
6. For international applicants, submission of proof of English proficiency is required. Refer to both the Graduate College and International Services websites.
7. Two written recommendations received with the application must be without significant reservations/concern.
 - Dietetic academic reference
 - Work or volunteer reference
8. Resume which includes:
 - Work or volunteer experience, preferably related to nutrition and dietetics.
 - Involvement in college and/or community activities.
9. After the application period closes, the selection committee will review all of the applications and select students for a virtual interview.
10. Following admission to the Missouri State MSND, students will be admitted to the Graduate College and the application fee will be waived.

Full admission to the MSND program is competitive; not all that apply will be admitted. Students who are not admitted into the program may apply for the next application deadline.

Upon acceptance to the MSND, additional requirements include:

1. Meet technical standards of the program in order to successfully undertake the course of study including evidence of good health. These standards are available upon request from the program.
2. Evidence of up-to-date immunizations to include MMR, tetanus, TB test, Hepatitis A, and complete Hepatitis B series, and any other vaccinations required by clinical sites.
3. Evidence of health insurance, including hospitalization.
4. Hold and maintain CPR certification.
5. Hold ServSafe certification valid throughout the first year of the program.
6. Student membership in the Academy of Nutrition and Dietetics.
7. Follow program provided instructions to complete a drug screening test and criminal record check* and receive response that the applicant has not been convicted of any crime pursuant to Section 324.217 or other disqualifications that would prohibit licensure as a registered dietitian nutritionist.

*Students who fail these checks or procedures will be subject to further review by the Nutrition and Dietetics Programs. This may result in dismissal from the program.

Requirements for Registered Dietitian Nutritionists

1. Provide copy of Registered Dietitian and Nutritionist (RDN) identification card issued by the Commission on Dietetic Registration (CDR).
2. Completion of a baccalaureate degree from an ACEND accredited college or university.
3. Cumulative GPA of 3.00 over the last 60 hours of academic work taken.
4. A personal philosophy statement, two pages maximum, addressing the applicant's professional career goals and how the program will help accomplish these goals, in addition to discussing the applicant's strengths and areas of improvement.
5. For international applicants, submission of proof of English proficiency is required. Refer to both the Graduate College and International Services websites.
6. One written recommendations received with the application must be without significant reservations/concern.

7. Work or volunteer reference
8. Current resume.

MSND Transfer of Credit Policy

On a case-by-case basis, Missouri State may accept graduate credit earned at other regionally accredited institutions or well-established international institutions. The Missouri State University Graduate transfer policy allows transfer credit to count for up to 30% of the program of study. Students who are RDNs may transfer hours for DTN 740, DTN 741, DTN 742, and DTN 743. A student requesting transfer credit is responsible for providing an official transcript and copy of course syllabus from the school from which the student received the academic credit. Acceptance of transfer credits occurs through recommendation of the student's major advisor and approval of the Graduate College. Grades on transfer courses accepted in the degree program are included in the overall graduate grade point average.

MSND Work Experience Related Policy

Work experience will not be awarded credits required to graduate from the MSND program.

MSND Prior Learning Assessment Policy

For students admitted to the MSND program who are registered dietitian nutritionists (RDNs), and completed their Dietetic Internship practicum courses in a Bachelor of Science and Dietetic Internship coordinated program, prior learning assessment may be used to grant course credit for DTN 740, DTN 741, DTN 742, and DTN 743.

Prior Learning Assessment (PLA) will be granted once the student submits their Commission on Dietetic Registration (CDR) Professional Development Portfolio (PDP) logs to the Dietetic Internship Program Director. RDNs are required to complete 75-continuing professional education units (CPEUs) every five years to demonstrate currency in the field of nutrition and dietetics. All logs since the time of becoming credentialed must be submitted for review.

Retention Requirements

After admission into the MSND Program, a student must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 9 semester hours of graduate work of "C+" or lower, and no hours of graduate work below a "C-". Students who do not meet this criterion will need to retake any graduate course that a grade below a "C-" was earned and retake some of the courses where a "C+" or lower was earned if they exceeded the acceptable amount of hours of graduate work below a grade of "C+" in the Program.
2. Receive average (3) or higher rating on all performance evaluations and earn 80% or higher on all coursework that assess the required competencies as set forth by ACEND. Students who do not meet this criterion are to follow the DI performance monitoring and remediation policy found in the student handbook.
3. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of healthcare professionals.
4. Demonstrate acceptable professional progression in application of skills and knowledge. Students who do not meet this criterion are subject to the DI disciplinary and termination policy found in the student handbook.

Students who do not meet the retention requirements are not eligible for readmission into the MSND Program. Students have the right to follow the University's appeal process on any disciplinary sanction received.

Degree Requirements Credit Hours: 39 Minimum

Core Requirements: 27-30 hours

- DTN 740 - Medical Nutrition Therapy I Practicum
- DTN 741 - Medical Nutrition Therapy II Practicum
- DTN 742 - Population Health Nutrition Practicum
- DTN 743 - Food Service Management Practicum
- DTN 744 - Practicum in Area of Concentration
- DTN 750 - Advanced Medical Nutrition Therapy
- DTN 752 - Advanced Population Health Nutrition I
- DTN 753 - Advanced Foodservice Management
- DTN 755 - Advanced Nutrition Counseling
- DTN 770 - Leadership in Nutrition and Dietetics
- RCH 700 - Essentials of Statistics

- RCH 730 - Research Methods for the Health Professions
OR
- PBH 760 - Research Methods for the Health Professions

- DTN 797 - Non-thesis Project
OR
- DTN 799 - Thesis

MSND Population Health Track: 12 hours

- MGT 701 - Health Services Organization
- PBH 710 - Clinical Epidemiology

- PBH 740 - Health Behavior
OR
- HLH 760 - Health Promotion Planning

- PBH 775 - Principles and Skills of Public Health Administration

MSND Health Promotion Track: 12 hours

- HLH 750 - Programming Approaches in Wellness/Health Promotion

- PBH 740 - Health Behavior
OR
- HLH 760 - Health Promotion Planning

Choose 6 hours from the choices below:

- HLH 682 - Motivational Interviewing for Health Professionals
- HLH 710 - Introduction to Health Promotion and Wellness Management
- HLH 752 - Health Risk Identification and Management
- KIN 650 - Organization and Administration for Kinesiology Professionals

Elective Courses

Students are not required to complete any elective courses but are welcome to work directly with their advisor and committee to determine if elective courses should be completed to strengthen their plan of study.

Culminating Assessment of Student Learning

Students must demonstrate a culminating assessment of student learning by meeting one of the following:

1. Satisfactory completion of scholarly paper and formal community or professional presentation which are components of DTN 797; or
2. Satisfactory completion of a thesis and oral defense which are components of DTN 799.

Occupational Therapy, MOT

Program Description

The Master of Occupational Therapy (MOT) entry-level curriculum prepares students to be reflective occupational therapy practitioners in traditional and emerging areas of practice. Occupational therapists work with people across the lifespan to promote and facilitate participation in all aspects of daily life through the therapeutic use of occupations (life activities). The program prepares graduates to practice in a variety of settings such as hospitals, homes, private practices, rehabilitation facilities, schools, community and governmental agencies, industry, and education or research centers.

Accreditation

The entry-level occupational therapy master's degree program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association, located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is 301-652-AOTA and its Web address is www.acoteonline.org. Graduates of the program will be eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT Certification Examination or attain state licensure.

The students must complete all graduation and fieldwork requirements in a timely manner. All Level II fieldwork must be completed within 24 months following completion of the didactic portion of the program.

Admission Requirements

To be considered for admission to the Master of Occupational Therapy (MOT) Program, a prospective student must apply to the MSU Master of Occupational Therapy Program via the Occupational Therapist Centralized Application Services (OTCAS) (www.otcas.org). Only applicants **accepted** into the MOT Program will be required to apply to the MSU Graduate College.

Admission to the MOT Program is competitive; not all that apply will be admitted. Students who are not accepted into the program may apply for the next application deadline. Complete applications will be reviewed by the MOT Program Admissions Committee. A select number of applicants will be invited for a personal interview. Video-conference interviews may be permitted for students living more than 100 miles from Springfield, MO. Prospective applicants must contact the MOT Program to request this accommodation. On-campus interviews are preferred; however, interview location will not affect the student's application.

Selection for an **interview and final admission decisions** will be based on the following:

1. Submission of an application to the OTCAS that must include a personal statement (following OTCAS requirements); two letters of recommendation that include one letter from an academic source (advisor, instructor, etc.), and one letter from a licensed occupational therapist, documented evidence of a minimum of 20 hours of observation of occupational therapy. Observation in at least two different areas of practice is encouraged;
2. Attainment of a cumulative grade point average (GPA) of no less than 3.00 on a 4.00 scale.
3. For international applicants, submission of proof of English proficiency. Refer to both Graduate College and International Services websites (<https://graduate.missouristate.edu/> or <https://international.missouristate.edu/services/>).
4. Possession of a baccalaureate degree from a regionally accredited institution prior to matriculation. The undergraduate degree may be in any field, but students must complete the following prerequisites (or their equivalents) listed below with a "C" or higher prior to entering the program:
 - English: 6 hrs (ENG 110 and ENG 210 (GEC 105)
 - College Algebra or higher: 3 hrs (MTH 134 or higher)
 - Statistics: 3 hrs (MTH 340, MTH 545, QBA 237, PSY 200, SOC 302, BIO 550)
 - Introductory Chemistry with lab: 4-5 hrs (CHM 116 and CHM 117 or CHM 160 and CHM 161)
 - Introductory Psychology: 3 hrs (PSY 121)
 - Abnormal Psychology: 3 hrs (PSY 304)
 - Human Development over the Lifespan: 3 hrs (CFD 155; may be met by completing sequence of courses covering development across the lifespan in Psychology - PSY 331, PSY 350, and PSY 441)
 - General Biology/Biomedical Sciences with lab: 4-5 hrs (BIO 121, or BMS 110 and BMS 111)
 - Human Anatomy with lab: 4 hrs (BMS 307)**
 - Human Physiology with lab: 4 hrs (BMS 308)**
 - **If students take a combined course, it must be taken across two semesters for a total of at least 8 credit hours to meet admission criteria; a single combined anatomy and physiology course WILL NOT be accepted.
 - Introductory Sociology or Cultural Anthropology: 3 hrs (SOC 150, ANT 125)
 - Medical Terminology: 1-3 hrs (LLT 102)
 - U.S. Government or U.S. History: 3 hrs (PLS 101, HST 121, HST 122)

Once accepted to the MOT Program, **all** students must provide the following:

1. A non-refundable confirmation deposit of \$500 to the MOT Program to reserve a seat in the incoming class. Upon matriculation into the MOT Program, this fee will be applied to the fall session tuition.
2. Current CPR and AED certification.
3. Evidence of current physical examination indicating good physical health, a TB skin test or chest X-ray and up-to-date immunizations (MMR, tetanus, and a complete Hepatitis B Series).
4. A signed acknowledgement of the capacity to meet technical standards and tasks required of an occupational therapist.
5. Ongoing security checks and annual drug screening required by clinical agencies. Students must submit drug screening test and criminal record check and receive response that the student has not been convicted of any crime according to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a Registered Occupational Therapist.*
- *Students who fail these checks or procedures will be subject to further review by the MOT Program Admissions Committee. This may result in dismissal from the MOT Program.
6. Evidence of professional association memberships, liability insurance and health insurance.
7. Signed acknowledgement of full understanding of The American Occupational Therapy Association's *Occupational Therapy Code of Ethics and Ethics Standards* to which all MOT students will adhere.

MOT Transfer of Credit Policy

On a case-by-case basis, the MOT Admissions Committee may accept graduate credit earned at a regionally accredited entry-level Master of Occupational Therapy Program. Acceptance of transfer credits on a graduate degree program occurs through recommendation of the student's major advisor at the institution of program of study, the MOT Admissions Committee, and approval of the MSU Graduate College. Transfer hours may count for up to 30% of the Program of Study. Transfer credits must

have been earned within five-years of the time of admission to the MOT Program. Grades on transfer courses accepted in the degree program are included in the overall graduate grade point average.

A student requesting transfer credit is responsible for providing an official course syllabus from the school from which the student received the academic credit. The syllabus will be reviewed in terms of the 2011 OT Master's Level Standards assigned to the MSU course. If the objectives are directly aligned with the MSU OT objectives for the course and the student earned a B or higher, transfer credit may be granted for an MSU MOT course.

MOT Experiential Learning/Work Experience Related Policy

Work experience will not be awarded credits required to graduate from the MOT program. The MOT admission committee and the program director will determine if previous work experience may be counted as the observation or volunteer hours needed for admission to the program.

MOT Advance Placement Policy

Advanced (accelerated) course placement in the MOT Program is not offered. This does not refer to high school advanced placement (AP) credits, which may or may not be applied toward MOT Program prerequisites: <https://www.missouristate.edu/admissions/advancedplacement.htm>

Retention Requirements

After admission into the MOT Program, a student must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 9 semester hours of graduate work below a grade of "B", and no hours of graduate work below a "C".
2. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of healthcare professionals.
3. Demonstrate acceptable professional progression in application of skills and knowledge.
4. Maintain current health and liability insurance.
5. Maintain current CPR and AED certification.
6. Must complete Level II Fieldwork and experiential requirements within 24 months following completion of the didactic portion of the program.

Students who fail to meet the retention criteria may:

1. Be placed on academic, professional, or clinical probation in the MOT Program.
2. Be dismissed from the MOT Program, based on the judgment of the-Program Director and MOT Faculty Retention Committee.

Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission into the MOT Program. Students have the right to follow the University's appeal process on any disciplinary sanction received. Students should refer to the Missouri State University Occupational Therapy Student Handbook for additional policies and procedures.

Degree requirements

Academic Advisor. After admission to the graduate program, the student will be assigned an academic advisor who will supervise the student's graduate program and determine the plan of study to progress through the program.

Core Courses Credit Hours: 78

- OTE 610 - Foundations and Theory in Occupational Therapy
- OTE 612 - Occupational Development Through the Lifespan
- OTE 615 - Professional Communication and Documentation
- OTE 620 - Psychosocial Perspectives in Occupational Therapy Practice
- OTE 640 - Evidence-Based Practice
- OTE 645 - Clinical Gross Anatomy
- OTE 646 - Neuroscience
- OTE 650 - Clinical Biomechanics in Human Performance
- OTE 720 - Cognition and Occupations Through the Lifespan
- OTE 725 - Environmental Adaptations and Assistive Technology
- OTE 730 - Enablers and Barriers: Adult Occupations
- OTE 731 - Essentials of Research Methods
- OTE 732 - Applied Research Methods in Healthcare
- OTE 745 - Therapeutic Skills I: Adult Practice
- OTE 746 - Management and Policy in Occupational Therapy Practice
- OTE 749 - Enablers and Barriers: Pediatric Occupations
- OTE 750 - Therapeutic Skills II: Pediatric Practice
- 4 credits of OTE 760 - Specialty Topics
- 6 credits of OTE 761 - Level I Fieldwork Seminar
- OTE 765 - Community and Health Practice in Occupational Therapy
- OTE 780 - Fieldwork Level II, Part 1
- 6 credits of OTE 790 - Fieldwork Level II, Part 2

Elective Courses

Students are not required to complete any elective courses but are welcome to work directly with their advisor and committee to determine if elective courses should be completed to strengthen their plan of study.

Research Requirement

Students will complete the research requirement as part of

- OTE 732 - Applied Research Methods in Healthcare
- OTE 765 - Community and Health Practice in Occupational Therapy

Comprehensive Examination

Students must pass a comprehensive exam which is implemented in the curriculum as computer-based competency testing.

Physician Assistant Studies, MS

Professional Description

Physician assistants are health professionals prepared to practice medicine with physician supervision. Physician assistants are qualified by graduation from an accredited physician assistant educational program and/or by certification by the National Commission on the Certification of Physician Assistants. Within the physician/PA relationship, physician assistants exercise autonomy in medical decision-making and provide a broad range of diagnostic and therapeutic services.

The clinical role of physician assistants includes primary and specialty care in medical and surgical practice settings in rural and urban areas. Physician assistant practice is centered on patient care and may include educational, research and administrative roles.

Program Description

The Master of Science in Physician Assistant Studies is a graduate, entry-level, professional study designed to prepare highly competent practitioners to practice primary care medicine in the context of team-delivered care in a rapidly evolving health care arena. The program is 24 months (six semesters) duration and is divided into didactic (12 months) and clinical phases (12 months). Enrollment is on a continuous, full-time basis only. The curriculum is based on the *Accreditation Standards for Physician Assistant Education* and incorporates the principles of scientific inquiry, self-directed study, critical analysis, and problem solving. Due to the rigorous nature of the curriculum, students should not expect to be employed during their enrollment.

Program Accreditation

The Missouri State University Physician Assistant Program is accredited by the Accreditation Review Commission on Education for the Physician Assistant (ARC-PA). Accreditation is a process of external peer review to assure standards of excellence and quality are met and maintained. Graduation from an accredited PA program is a requirement to practice as a PA in the United States and to sit for the National Commission on Certification of Physician Assistants (NCCPA) certifying examination.

Admission Requirements

Applications are submitted to CASPA online for individuals interested in applying for the class beginning in January.

1. Possess baccalaureate or higher degree from a regionally accredited institution in the United States prior to entering the program. Applicants who have completed a higher degree in the U.S. and a baccalaureate degree at an accredited international institution must submit a course-by-course U.S. equivalency report from a U.S. based evaluation service directly to CASPA in addition to other required transcripts.
2. Applicants must have an overall grade point average (GPA) of at least 3.00 (as determined by CASPA) on a 4.00 scale, or 3.00 on a 4.00 scale for the last 60 hours of course work is required.
3. Complete all pre-professional prerequisite courses by the end of the summer semester before the program begins (*pre-professional* prerequisite courses listed below). All prerequisite courses must be completed at a regionally accredited institution.
4. Complete the Physician Assistant College Admission Test (PA-CAT) (recommended), Graduate Record Examination General (GRE) or the Medical College Admission Test (MCAT) within the past 5 years.
5. Meet all requirements for admission to graduate study at Missouri State University. Graduate College admission and degree requirements are detailed under the Graduate College policies in the current catalog.
6. Present evidence of completion of the Basic Life Support for Health Professionals course approved by the American Heart Association. The certificate must be valid for one year after the beginning of the program.
7. Meet technical standards of the program in order to successfully undertake the course of study. These standards are available upon request from the program. Matriculating students must also demonstrate evidence of good physical health and have up-to-date immunizations (MMR, tetanus, and a complete Hepatitis B series, varicella zoster virus or a titer demonstrating immunity, current influenza vaccination) and a PPD (Plus chest x-ray for PPD+ individuals).
8. The Missouri State University Physician Assistant Program participates in the Central Application Service for Physician Assistants (CASPA). Applications will be available after May 1 for individuals interested in applying for the

class beginning in January. Apply online at <https://caspa.liaisoncas.com/>. The deadline for applications to CASPA is July 15. All applications must be verified by CASPA no later than August 12. The CASPA web site provides additional information about the initial application requirements and fees.

9. Competitive applicants will be invited to interview with members of the program's admission committee.
10. Matriculated students must enroll on a full-time basis and progress through the program with their class.
11. All students are required to carry professional liability insurance throughout the program. This insurance is available through the American Academy of Physician Assistants.
12. All students must also carry health (including hospitalization) insurance throughout the entire program.
13. Students will be required to initiate and pay for any security checks and drug screening required by clinical agencies, for application to take the Physician Assistant National Certifying Exam (PANCE), and when applying for professional licensure.
14. Apply for criminal record check and receive response that the applicant has not been convicted of any crime pursuant to Section 660.317 RSMo or other disqualifications that would prohibit licensure as a physician assistant.
15. Applicants must have a minimum of 500+ hours of paid, direct, hands-on patient care experience at the time the CASPA application is submitted. Patient care experience requiring certification is most competitive and includes, but is not limited to: nurse, paramedic, EMT-B, CNA or PCT, health educator, respiratory therapist, athletic trainer or Medical Assistant (MA). Supervised clinical internships may account for up to 50 of the required 500 hours. Volunteer work at hospitals, clinics or other medical venues does not count toward the required hours of clinical experience, but is valued by the admissions committee and can, therefore, strengthen a candidate's application.
16. Candidate for admission to the PA program must "shadow" a practicing PA for at least 24 hours.

Selection Factors

Admission into the Physician Assistant Studies Program is highly competitive. The maximum number of students admitted to each cohort is specified by the Accreditation Review Commission on Education for the Physician Assistant, Inc. While applicants must complete all prerequisite requirements to be considered for a position in the class, completion of all admission requirements does not assure acceptance into the program. In making class selections, the admissions committee will consider the following characteristics of competitive applicants:

- academic potential (science GPA, overall GPA, last 60 hours GP, program-specific graduate study entrance examination) to successfully complete the program
- understanding and commitment to the role of the physician assistant
- personal maturity
- motivation
- interpersonal skills
- quality and duration of health care experience
- capacity for performance of the technical functions and tasks required of the physician assistant
- service and leadership experience
- characteristics to enhance the program's mission and goals including strong motivation to practice in rural/underserved areas
- graduation from Missouri State University
- diverse life experiences including, but not limited to, U.S. military experience, first generation college students, diverse upbringing/background or unique life experience
- previous application to MSU PA program

Preprofessional Prerequisite Courses - Minimum Semester Hours **

1. **Life sciences - 14 hrs minimum**

- a. Must include 2 courses (8 semester hours total) in anatomy and physiology at the pre-med level or for science majors including lab.
 - b. Must include a course in microbiology (3 semester hours minimum), preferably including a lab component.
 - c. Must include a course in human or medical genetics (3 semester hours minimum).
 - d. Other appropriate courses may include cell biology, cell physiology, embryology, endocrinology, genetics, histology, virology, immunology, molecular biology, neurobiology, bacteriology, and epidemiology.
2. **Chemistry - 12 hrs minimum**
 - a. Must include the complete sequence (2-3 semesters) of general chemistry at the pre-med level or for science majors including lab.
 - b. A course in organic chemistry or biochemistry is also required (a survey course is acceptable).
3. **Statistics - 3 hrs**
4. **Social Science - 6 hrs minimum**
 - a. Must include a course in general or introductory psychology.
 - b. Additional courses may include: developmental psychology, abnormal psychology, sociology, health care ethics, or death and dying, etc.

** Contact school for additional information.

** A grade of "C" or higher must be earned in each of the courses.

** CLEP examination or advanced placement credit may not be used to meet any of the above requirements, unless a comparable number of credits in advanced courses in the discipline have been completed.

** Due to the rapid evolution of the basic sciences, preference may be given to applicants who have completed their pre-professional prerequisite courses during five years prior to applying to the program, particularly those with strong science work.

** Additional life science course work (listed above) beyond the minimum will strengthen the application.

Recommended Prerequisites/Proficiencies

1. A course in medical terminology is strongly recommended for applicants who are not health professionals or for any applicant not confident of their ability in this area. Self-study courses are appropriate.
2. Proficiency in basic computer skills (word-processing, spreadsheets, databases, Internet searches, Email) is expected of all entering students as the curriculum will incorporate the use of computer technology. Additionally, all students in the program will be expected to have computer access to the Internet available at home.

Retention During the Program

The PA program holds high academic and ethical standards. A student must attain a grade point average of at least 3.00 on all graduate work. A grade of "C" or above (or "pass" for courses graded "pass/not pass") represents acceptable professional work for the PA program, however a student earning more than nine semester hours of "C" or lower becomes ineligible for graduate study. No course with a grade below "C" may be applied toward a graduate degree. Any grade below a "C" in any given course, didactic or clinical, is not acceptable and may be grounds for dismissal from the PA program for academic reasons, subject to faculty discretion. If a student earning a grade below a "C" is retained in the program, the student will be required to complete remedial work prescribed by the faculty; this may result in the student's delayed graduation. Students must also meet any requirements for individual clinical preceptorship sites.

Admission to the PA program and acceptable grades represent the minimum criteria necessary for successful completion of the PA program. The PA program faculty constitutes the Promotions Committee which meets at the end of the didactic year to determine if students will be advanced to the clinical phase of training. While grades are important, the decision to promote a student is based on the composite picture of the ability of the student to perform satisfactorily in the clinical phase of training. If a student has failed to demonstrate an attitude of professionalism (as detailed in the didactic year policy manual) or if the committee does not believe that student is prepared to assume patient care responsibilities, a student may be dismissed from the

program. Similarly, at the end of the clinical year, the Promotions Committee will make a determination about a student's readiness to graduate based on academic performance and professional growth and development.

Degree Requirements

All students must complete the required 87 semester hours of the curriculum (42 didactic and 45 clinical) in the prescribed sequence for each admitted class (cohort). Any exceptions to the cohort progression must stem from unavoidable and extreme personal circumstances, and must be approved by the program director.

- A. **Academic Advisor** - Upon matriculation, each student will be assigned to a departmental academic advisor, who along with the program's didactic and clinical coordinators, will supervise a student's progression through the program.
- B. **Didactic year courses:**

Spring - Credit Hours: 15

- PAS 717 - Medical Human Anatomy and Radiology
- BMS 752 - Medical Physiology
- PAS 753 - Molecular Pathophysiology
- PAS 765 - Clinical Assessment I
- PAS 769 - Social Aspects of Medicine
- PAS 775 - Principles of Clinical Problem Solving

Summer - Credit Hours: 10

- PAS 785 - Clinical Medicine I
- PAS 780 - Pharmacotherapeutics I
- PAS 766 - Clinical Assessment II
- PAS 770 - Professional Issues Seminar
- PAS 783 - Clinical Practicum I

Fall - Credit Hours: 17

- PAS 786 - Clinical Medicine II
- PAS 781 - Advanced Pharmacotherapeutics
- PAS 787 - Laboratory Medicine and Clinical Procedures
- PAS 788 - EKG and ACLS
- PAS 776 - Clinical Problem Solving Seminar
- PAS 777 - Essentials of Research Methods
- PAS 784 - Clinical Practicum II

Clinical Year Courses

The clinical year consists of 8 six-week clinical preceptorship courses (PAS 790) for 5 credit hours each. The clinical preceptorship courses consist of the following required clinical rotations:

- Family medicine I*
- Family medicine II*

- General surgery
- Internal Medicine
- Emergency Medicine
- Obstetrics and Gynecology/Women's Health
- Pediatrics
- Directed/Electives*

* With one of the Family Medicine or Directed/Elective clinical rotations, the student will experience a 3 week emphasis in behavioral and mental health.

Notes:

1. Students should expect to complete at least one primary care preceptorship (family practice, internal medicine, or pediatrics) in a rural setting.
2. All students should anticipate that up to three of eight assigned clinical rotations will occur outside of the Springfield area, which will require living in "off-campus" housing. The sequence of this will not occur consecutively so students should not forfeit Springfield housing when assigned to areas outside of Springfield. Students will be responsible for securing housing in such areas and all costs associated with this housing, including travel-related expenses and meals. In some instances, housing resources (i.e., list of available housing options) will be provided by the program.
3. Students will register in the clinical year for PAS 797 - Clinical Practice Issues Seminar (1 credit hour) each semester for a total of 3 credit hours and for PAS 798 - Research Project (2 hours) during the final semester of their clinical year. This project will consist of an in-depth study of a clinical problem of interest, which culminates in a scholarly paper and formal presentation.

Psychology, MS

NOTE: Experimental option is not accepting applications at this time.

This program is designed to educate qualified students in sub-disciplines of psychology and includes extensive and necessary research training and internships.

The Industrial and Organizational program option received full membership/certification from the Council of Applied Master's Programs in Psychology (CAMPP) in April 2005. Full membership indicates that the program complies with the general standards for education and training for applied master's programs.

Program Description

The MS Psychology degree program consists of two options: Industrial-Organizational, and Experimental.

Entrance Requirements

Admission to our Master's program is very competitive and decisions regarding acceptance will begin March 1. Hence, the application deadline is February 15th. All application materials, including recommendation letters, should be submitted by February 15th.

1. To be considered for admission to the program, a student must submit a Graduate Application and the departmental application.
2. The Graduate Application and application fee, as well as the following materials, must be submitted.
 - a. transcripts from all undergraduate and graduate institutions that the student has attended; and

- b. GRE scores including Quantitative, Verbal and Critical Thinking and Writing.
3. Additional materials to be submitted before the application will be considered:
 - a. a formal application, including a statement of career goals and detailing experience in the community, research, or other relevant non-classroom activities; and
 - b. at least three (3) letters of recommendation (including at least two (2) from college-level teachers who are well acquainted with the student's academic achievements).
4. Admission to the program requires the following minimum criteria:
 - a. completion of a baccalaureate degree from a regionally accredited college or university;
 - b. cumulative GPA of 3.00 on a 4.00 scale in undergraduate and graduate work and 3.25 in the major field;
 - c. a 3.25 GPA in at least twenty (20) semester hrs or thirty (30) quarter hours of Psychology courses including courses in both statistics and research methods;
 - d. submission of the Graduate Record Examination (GRE) scores, with a recommended Verbal Score of 151 or higher and Quantitative Score of 142 or higher

A student who does not meet all the above criteria, but who demonstrates outstanding potential, may be considered on the basis of individual merit by the Graduate Admissions Committee and accepted on probationary status.

Additional Program Requirements

Some academic programs in the health related areas will require students to pass a background security check and a drug screening. These programmatic screening policies are a result of health organizations' requirements for placement at their clinical sites. Students will be financially responsible for the background security check and drug screening. Please see each academic program requirements, applications materials and admission standards for specific detailed information. Students who do not pass the appropriate screenings may not be able to complete the program or practice professionally.

Industrial-Organizational (I-O) Option

Adopting a scientist-practitioner model, the Industrial-Organizational (I-O) option is designed to develop research skills and general knowledge of I-O content areas. The focus of the track is on the application of psychological research methods and principles in a variety of settings, including business, industry, government, and non-profit organizations. Students can select either an internship or thesis option. Objectives of the I-O track include:

1. development of research and statistical skills for job analysis, performance assessment, measurement of individual differences, program development and evaluation;
2. development of a knowledge base concerning important contextual influences on behavior, including social influences, work motivation, job design, organizational theory and training and development;
3. development of an understanding of the philosophical, ethical, and legal constraints on the practice of applied psychology;
4. development of communication and interpersonal competence necessary for successful functioning in organizations.

Experimental Option

The experimental option is designed to prepare students for doctoral studies. That is, it is for those students who wish to primarily pursue an academic/research career (to teach at the university level and to conduct basic or applied research in an effort to advance the science of behavior). Objectives of the experimental track include:

1. development of skills needed to design, conduct, analyze, and report research;
2. acquisition of a broad background in psychology (theory and measurement) as well as specialized knowledge in an area of interest, such as learning, memory, and cognition; attention and perception; physiological; development; ethological or quantitative psychology.

Degree Requirements

The program has been designed as a full-time, two-year (four semester) course of study. **The total number of credits required for graduation is 47 semester hours.** Because most required courses will not be offered nights or weekends, and the Practicum, Internship, Directed Research, and Thesis require time blocks available during the day, a student will be unable to complete all of the degree requirements on a part-time basis. The student must maintain a cumulative GPA of 3.25 or better, show satisfactory progress toward completion of degree requirements, and correct any unsatisfactory performances.

If deficiencies are not removed during the succeeding semester, the student may be terminated from the program.

Students are expected to conform to the Ethical Principles and Code of Conduct of the American Psychological Association. All students will be evaluated periodically on performance in course work, development of research skills, and professional development. Performance of assistantship duties will also be evaluated if applicable.

The purpose of these periodic evaluations is to determine if the student's continuation in the program is warranted. Evaluation procedures are available in the departmental office.

Core Requirements (Required for All Options)

- PSY 745 - Statistics and Research Design
- PSY 752 - Research Methods
- PSY 761 - Ethical and Professional Issues
- PSY 780 - Social Psychology
- 6 credits of PSY 796 - Practicum
- 3 credits of PSY 798 - Internship
- **OR**
- 3 credits of PSY 799 - Thesis

Total Hours Required: 21

Industrial-Organizational Option Course Requirements

- Required Core Courses - see above **Credit Hours: 21**
- Required I-O Courses - see below **Credit Hours: 21**
- PSY 716 - Applied Psychology in Human Resource Management
- PSY 718 - Organizational Psychology
- PSY 750 - Advanced Survey of Psychology
- 3 additional credits of PSY 798 - Internship
- **OR**
- 3 additional credits of PSY 799 - Thesis

Plus at Least Three (3) Courses From the Following List:

- PSY 753 - Program Evaluation
- PSY 771 - Occupational Health Psychology
- PSY 772 - Performance Assessment
- PSY 773 - Human Factors
- PSY 774 - Training and Development

- PSY 776 - Personnel Selection, Placement and Classification
- PSY 778 - Group Processes
- PSY 779 - Topics in Industrial-Organizational Psychology

Electives: Credit Hours: 5 Minimum

Graduate courses chosen from the offerings of Psychology, Management, Communications and Mass Media, and other departments must be approved by the student's committee.

Experimental Option Course Requirements - NOT ACCEPTING APPLICATIONS AT THIS TIME

- Required Core Courses - see above **Credit Hours: 21**
- Required Experimental Track Courses - see below **Credit Hours: 26**
- PSY 750 - Advanced Survey of Psychology
- 3 additional credits of PSY 799 - Thesis

Plus 4 Courses Selected From the Following:

- PSY 606 - Perception
- PSY 614 - Introduction to Applied Behavior Analysis
- PSY 612 - Personality Theory and Systems
- PSY 619 - Cognitive Development
- PSY 622 - Physiological Psychology
- PSY 625 - Motivation and Emotions
- PSY 629 - Psychological Tests and Measurements
- PSY 634 - Psychology of Infancy
- 3 credits of PSY 701 - Symposium in Psychology
- PSY 703 - Human Growth and Development
- PSY 708 - Memory
- PSY 751 - Seminar in Methods of Research

Electives: Credit Hours: 8

Under direction of the student's committee, 600-and 700-level courses from psychology and other departments may be used to complete the electives.

Comprehensive Examination

A written comprehensive examination must be passed by the candidate before a degree will be granted.

Culminating Experiences

Culminating experiences are crucial to the MS in Psychology program because these experiences are typically a major consideration in employment and in opportunities for doctoral study.

Internships will be congruent with program goals and will be conducted in sites appropriate to the career goals of each student. For each credit hour, students must serve 60 hours at the internship agency. Evaluation of student performance will come from two sources: first, supervisors and caseworkers at the agency, and second, university faculty including the Graduate Program Coordinator and the director of the internship. Besides providing extensive, supervised fieldwork, the internship will allow students to integrate theoretical and research knowledge with specific aspects of the applied experience.

The primary purpose of the thesis is to allow the student to establish and demonstrate research competency. In the pursuit of this goal, students will learn the following:

- a. How to identify an original and significant research problem;
- b. How to conduct comprehensive background literature searches on the topic;
- c. How to collect, analyze, and interpret data; and
- d. How to communicate research results in a scientifically lucid fashion.

The written thesis followed by an oral defense will serve this function.

Public Health, MPH

Program Description

The Master of Public Health (MPH) program offers a generalist MPH degree consisting of 42 credit hours. The program's mission is to prevent disease, promote health, and protect the well-being of the public through education, research and service.

Students gain knowledge in each of the five core disciplines of public health: biostatistics, epidemiology, environmental health sciences, public health administration, and the social behavioral sciences. The program prepares students to assess community health needs, plan effective health education and health intervention programs, implement and evaluate educational experiences, and conduct public health research.

Graduates of this program will enter public health service as practitioners, administrators, researchers, educators, and consultants in a wide variety of public health settings. Most will be employed in local, state, and national public health agencies, while others will work for non-profit organizations, private agencies, medical facilities, governmental agencies, and educational institutions.

Admission Requirements

The Master of Public Health (MPH) program seeks to admit students who:

- Demonstrate the potential to be successful in graduate school
- Are committed to the public health profession
- Show evidence of their commitments through their interest, backgrounds, and experiences

Consideration for admission to the Master of Public Health Program requires the following:

1. Completion of a baccalaureate degree from a regionally accredited college or university with a minimum GPA of 3.00;
2. Submission of completed Graduate Application;
3. International applicants for whom English is not the native language are required to submit official scores from the Test of English as a Foreign Language (TOEFL). See the required scores as noted on the Graduate College webpage. The IELTS will also be accepted.

Accelerated MPH Option

An accelerated option is available for eligible Missouri State University undergraduate students. Up to 12 hours of courses can be counted for both graduate and undergraduate credit. Contact the Master of Public Health (MPH) program for further information and guidelines.

Degree Requirements

The MPH program requires completion of 42 credit hours and includes the following:

PBH Core Courses Credit Hours: 30

- PBH 720 - Epidemiology
- PBH 730 - Statistics for the Health Professions
- PBH 740 - Health Behavior
- PBH 745 - Environmental Health
- PBH 775 - Principles and Skills of Public Health Administration
- PBH 735 - Software Applications and Data Sources in Public Health
- PBH 756 - Introduction to Public Health
- PBH 760 - Research Methods for the Health Professions
- PBH 783 - International Health and Infectious Disease
- MGT 701 - Health Services Organization

Elective Courses Credit Hours: 6

Students will select 2 graduate-level (600 or higher) courses with consent of program advisor.

Field and Capstone Experience Credit Hours: 6

Complete 6 credits with one of the following combination of credits:

PBH 798 (3 credits) and PBH 799 (3 credits) **OR**

PBH 798 (6 credits)

- PBH 798 - Public Health Field Experience
- PBH 799 - Capstone Project in Public Health

Core Course Examination

After satisfactory completion of PBH 720 , PBH 730 , PBH 740 , PBH 745 and PBH 775 , all students are required to pass a written examination.

Field Experience

All students are required to complete a practical experience in an approved public health setting under the mentorship of a faculty member and the supervision of an on-site public health professional.

In order to qualify for the Public Health Field Experience, students must have successfully passed the core examination. The Field Experience must be approved. The only curricular practical training that will be approved is the PBH 798 course. No

external research at other institutions will be approved for curricular practical training during the completion of the Master of Public Health (MPH) program.

Capstone Project

If a student chooses to complete 3 credits of field experience and 3 credits of a capstone project, the capstone project will be completed with the mentorship of an MPH faculty member.

Retention and Readmission to the Program

Admission to the Master of Public Health (MPH) program is through a competitive admissions process with only a limited number of students admitted each year. Students who leave the program will be required to apply for readmission. Applications for readmission will be reviewed by the MPH faculty. International students must comply with program and International Services policies. Students have a maximum of eight years to complete the program. Students who exceed this time period must seek an extension. All other retention policies are defined by the Graduate College.

MPH-MHA Dual Degree

Students can obtain dual degrees in health administration and public health at Missouri State University. A total of 12 hours of coursework can be applied to both programs, reducing the time required to obtain both degrees separately. See graduate advisor for more information.

Secondary Education: Physical Education Area of Emphasis, MSED

See program requirements for the Secondary Education, MSED.

MSED, Secondary education, physical education is not accepting applications at this time.

Physical Education Requirements

- KIN 705 - Applied Statistics in Kinesiology

Additional Courses Numbered 700 or Above Offered by Kinesiology Credit Hours: 12

(excluding KIN 795 or KIN 799)

Total Hours Required: 15

Social Work, MSW

Program Description

The MSW program prepares students for advanced generalist social work practice. It is fully accredited by the Council on Social Work Education (CSWE).

The School of Mental Health and Behavioral Sciences offers the MSW program in two options: Advanced Standing and Regular Standing. The Advanced Standing program option is designed for students who have a baccalaureate degree in social work (BSW) from a CSWE accredited program and who meet the Advanced Standing program admission requirements. Those who have substantial work experience in the social work field and/or have completed course work in social work (even a minor) but have not graduated with a BSW, are **not** eligible for Advanced Standing. The Advanced Standing program involves 31 credit hours and can be completed in full-time status (three semesters) or part-time status (four semesters).

The Regular Standing MSW program option is designed for students who do not have a baccalaureate degree in social work from a CSWE accredited program, or who do not meet the other admission requirements for the Advanced Standing program. The Regular Standing program requires 58 credit hours to earn the MSW degree. The Regular Standing student can complete the program in full-time status.

Master of Social Work Admission Objectives

Admission to the Master of Social Work program is competitive and selective. All applicants applying on time and meeting the minimum standards will be considered for admission. However, merely meeting these standards does not guarantee admission. Only those students showing significant promise for a career in social work will be admitted to the program. The MSW program is committed to providing equal educational opportunities to all students regardless of their economic or social status, race, color, gender, sexual orientation, political orientation, disability, age, veterans' status, or marital or parental status.

Admission Requirements for the Regular Standing MSW Program

Regular Standing MSW program applicants will apply using the centralized application service for social work known as SocialWorkCAS. To begin this process, the applicant will create an account through the SocialWorkCAS website (socialworkcas.liaisoncas.org). SocialWorkCAS will verify the application for accuracy, calculate the GPA, and send materials to all specified Master of Social Work programs.

All documents required for the Missouri State University MSW application will all be submitted through SocialWorkCAS. Items submitted directly to SocialWorkCAS include: an application, all official undergraduate and graduate transcripts, a resume, personal statement essays, and three letters of reference.

The GRE exam is not required for admission.

Students are eligible to apply for admission into the **Regular Standing MSW** program when the following conditions are met:

1. Applicants must have earned a bachelor's degree from a college or university accredited by a regional agency recognized by the Commission on Recognition of Postsecondary Accreditation.
2. Applicants must have earned an overall GPA of at least 3.00 on a 4.00 scale for all undergraduate coursework taken.
 - The GPA for upper-division course work (last 60 hours) in undergraduate classes may be used if higher than the overall GPA and if this GPA is calculated by the Graduate College or a referring college office.

- The GPA from a graduate degree or graduate certificate from a college or university accredited by a regional agency recognized by the Commission on Recognition of Postsecondary Accreditation may be used if higher than the undergraduate GPA.

Admission Requirements for the Advanced Standing Program

Advanced Standing MSW program applicants will apply using the centralized application service for social work known as SocialWorkCAS. To begin this process, the applicant will create an account through the SocialWorkCAS website (socialworkcas.liaisoncas.org). SocialWorkCAS will verify the application for accuracy, calculate the GPA, and send materials to all specified Master of Social Work programs.

All documents required for the Missouri State University MSW application will all be submitted through SocialWorkCAS. Items submitted directly to SocialWorkCAS include: an application, all official undergraduate and graduate transcripts, a resume, verification of CSWE accredited BSW degree, personal statement essays, and three letters of reference.

The GRE exam is not required for admission.

Students are eligible to apply for admission into the **Advanced Standing MSW** program when the following conditions are met:

1. Applicants must have earned a bachelor's degree in social work from an undergraduate program accredited by the Council on Social Work Education (CSWE).
 - It is the responsibility of the applicant to verify their Bachelor of Social work meets CSWE's accreditation standards **before** applying to the advanced standing program.
 - Verification is to be submitted with the application by a notation of CSWE accreditation on the official transcript, or a copy of accreditation status of BSW degree awarding university listed on CSWE Accreditation page.
2. Applicants must have no more than one grade of "C" and not grades below "C" in all social work prefixed courses.
3. Applicants must have earned an overall GPA of at least 3.00 on a 4.00 scale for all undergraduate coursework taken.
 - The GPA for upper-division course work (last 60 hours) in undergraduate classes may be used if higher than the overall GPA and if this GPA is calculated by the Graduate College or a referring college office.
4. International students can apply for advanced standing program by completing the following procedures:
 - CSWE's International Social Work Degree Recognition and Evaluation Service (ISWDRES) recognizes academic credentials in social work that are comparable to accredited baccalaureate and master's degrees in social work in the United States. Recognition is necessary to establish qualifications for employment, graduate school admission, membership in the National Association of Social Workers, state licensing, and/or certification.
 - An International applicant is required to complete the ISWDRES screening form through Council on Social Work Education to determine if a social work degree has been obtained **before** applying to advanced standing program.
 - Verification is to be submitted with the application through notation of CSWE accredited program on the official transcript or other forms of official CSWE document.
5. Preference is given to students who currently reside in the Heart of the Midwest (i.e., Missouri, Arkansas, Kansas and Oklahoma).

Application Deadlines

Application and all additional materials must be submitted by the due date on the application for the year of desired admission for both Advanced and Regular Standing MSW program options. Deadlines will be strictly enforced so applicants are encouraged to apply early. Applicants must have all application materials submitted by the application deadline for consideration. It is

recommended that all transcripts be received by SocialWorkCAS no later than two weeks before the due date in order to meet the admission deadline.

Admission to the MSW program involves the "whole person" concept. As such, the admission process considers a person's character and personal fitness to the social work profession, academic preparedness for graduate study, and a student's potential to conduct applied social work. Evidence of this includes: previous employment or significant volunteer experience in human services, the student's statement of purpose, letters of reference, and other information relevant to the admission decision.

Transfer Students

The MSW program will consider transfer credits for core courses only from accredited graduate social work programs. No credit will be given for life or work experience. A maximum of 12 graduate hours from such programs may be accepted if taken at the **generalist** level. No transfer course work will be accepted for classes taken at the specialist level. Elective credit may be transferred from other social work programs or from programs related to social work (i.e., psychology, counseling, public health, etc.). Elective courses must have been taken within 5 years of entering the MSW program in order to count toward the degree requirements.

After a prospective student has been accepted for admission, the MSW Coordinator will determine the amount of acceptable transfer credit (up to the maximum credit allowed) following a review of official transcripts, catalog descriptions, and course syllabi. Primary emphasis is on assessing whether the objectives and content of transfer courses matches those of required Missouri State University courses. No transfer credits for core courses or electives will be accepted if the student earned less than a "B" or took the class more than 5 years prior to enrolling in the MSW program.

Academic Standards

Students are expected to meet graduate school requirements for good academic standing of a 3.0 GPA for all graduate course work transferred in or earned at Missouri State University. Students will be dismissed from the program for any of the following academic reasons:

1. Two grades of "C" in any graduate coursework.
2. A grade of "no pass" or "C" in any practicum and seminar.
3. A grade below "C" in any graduate coursework.

Social Work Policies and Procedures for Review of Academic Performance and Grievances

All social work graduate students are expected to conduct themselves in a professional manner consistent with the NASW Code of Ethics. All policies concerning student academic performance and personal conduct are delineated by University Policies. All related or other departmental policies and procedures can be found in the MSW Student Handbook.

Capstone Requirements for Regular and Advanced Standing MSW Programs

There are two additional requirements that all MSW students must do to graduate. First, is completing a comprehensive examination. Second, is the successful completion of all field education hours. Practicum hours are completed in-person in an agency approved by the School of Mental Health and Behavioral Sciences. There are 400 hours in the field practicum at the

generalist level and 500 hours at the advanced generalist level. Advanced Standing students are in the field only at the advanced generalist level. Both capstone requirements must be finished before an MSW degree will be granted.

Degree Requirements for Regular Standing MSW Program

The Regular Standing MSW program requires a minimum of 58 hours of graduate credit. The required courses by curriculum level are listed as follows. The first phase in the program is the generalist level and involves courses taken in the first year. These courses must be completed before enrolling in the second level of classes. The second phase of course work is the specialist level and involves courses taken in the second year.

Required Courses for Regular Standing MSW Program:

Generalist Level Courses:

- SWK 705 - Human Behavior in the Social Environment
- SWK 710 - Generalist Social Work Practice with Individuals
- SWK 715 - Social Welfare Policy and Services
- SWK 725 - Generalist Social Work Practice with Families and Groups
- SWK 726 - Generalist Social Work Practice with Communities and Organizations
- SWK 730 - Diversity and Social Justice
- SWK 745 - Regular Practicum I
OR
- SWK 748 - Extended Practicum I
- SWK 747 - Regular Seminar I
OR
- SWK 749 - Extended Seminar I

Total Hours Required for Generalist Level: 27

Advanced Generalist Level Courses:

- SWK 750 - Social Work Practice I: Advanced Generalist Practice with Individuals
- SWK 754 - Advanced Clinical Social Work Assessment
- SWK 755 - Social Work Practice II: Advanced Generalist Practice with Families
- SWK 756 - Social Work Practice III: Advanced Generalist Practice with Groups
- SWK 757 - Social Work Practice IV: Evidence-Informed Practice with Communities and Organizations
- SWK 760 - Advanced Policy and Social Justice
- 8 credits of SWK 780 - Regular Practicum II
OR
- SWK 781 - Regular Seminar II
- SWK 782 - Extended Practicum II
OR
- SWK 783 - Extended Seminar II
- Social Work Elective: Choose 3 hours from SWK 602 , SWK 643 , SWK 696 , SWK 699 , SWK 735 , SWK 736 , SWK 737 , SWK 742

Total Hours Required for Advanced Level: 31

Total Hours Required for MSW Regular Standing Program Option: 58

Degree Requirements for Advanced Standing Program

The Advanced Standing MSW program requires a minimum of 31 hours of graduate courses. The required courses are listed as follows for both full-time and part-time options. The full-time option can be completed in three semesters and the part-time option can be completed in six semesters.

Required Courses for Advanced Standing Program

Advanced Generalist Level Courses:

- SWK 750 - Social Work Practice I: Advanced Generalist Practice with Individuals
- SWK 754 - Advanced Clinical Social Work Assessment
- SWK 755 - Social Work Practice II: Advanced Generalist Practice with Families
- SWK 756 - Social Work Practice III: Advanced Generalist Practice with Groups
- SWK 757 - Social Work Practice IV: Evidence-Informed Practice with Communities and Organizations
- SWK 760 - Advanced Policy and Social Justice
- 8 credits of SWK 780 - Regular Practicum II
OR
- SWK 781 - Regular Seminar II
- SWK 782 - Extended Practicum II
OR
- SWK 783 - Extended Seminar II
- Social Work Elective: Choose 3 hours from SWK 602 , SWK 643 , SWK 696 , SWK 699 , SWK 735 , SWK 736 , SWK 737 , SWK 742

Total Hours Required for the MSW Advanced Standing Program Option: 31

Current Elective Courses in the MSW Program:

- SWK 602 - Rural Health
- SWK 643 - Non-Profit Management in the Health and Human Services
- SWK 696 - Health Literacy in the Human Services
- 3 credits of SWK 699 - Special Topics
- SWK 735 - Clinical Interventions with Weight Concerns
- SWK 736 - Trauma-Informed Social Work Practice
- SWK 737 - Grief and Loss Across the Life Span
- SWK 742 - Substance Use and Social Work Practice

Speech-Language Pathology, MS

Program Description

The Masters program in speech-language pathology (SLP) is designed to prepare students to make intelligent decisions and take appropriate, thoughtful action. The program is organized to encourage students to use critical thinking and problem-solving to identify and meet the communication needs of individuals and families. The SLP program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association (ASHA).

Master of Science in Speech-Language Pathology

Completion of course work for speech-language pathology requires two academic years (fall, spring) and one summer; enrollment in two summer sessions is encouraged. This option prepares students for a career in an educational setting (i.e., public school, special school, special school district); a clinical setting (i.e., hospital, guidance center, rehabilitation center or nursing home); an industrial setting; a private setting; or others. Entry into a PhD program is also possible after completion of this program.

Admission Requirements

Completed application must be received by CSDCAS and noted as complete by January 15 to be considered for the fall semester. The number of students who can enter the program each year is limited. Admission to the program is competitive.

Full admission to the program shall be based on the following components and application requirements/deadlines:

1. A Bachelor's degree in CSD. (For those with a non-CSD undergraduate degree, please contact the school at 417-836-5368).
2. The student must have a cumulative GPA of 3.00 or better (4.00 scale). Additionally, GPA within the CSD undergraduate major must be a 3.00 or better.
3. Graduate Record Examination. GRE scores are considered along with GPA and other application components. GRE scores must be submitted through CSDCAS by choosing the MSU designation (code 0741).

CSDCAS application service. Students will submit applications through a site called CSDCAS. Instructions for the application process are available on the CSDCAS site.

Program Requirements

Non-Thesis Option: A minimum of 58 semester hours in Speech-Language Pathology shall be completed, including the following:

1. Graduate course work to meet academic requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC).
2. Clinical practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC).
3. Completion of a master's project.
4. Comprehensive Examinations.

Thesis Option: Requirements included in items 1 and 2 above shall pertain. Completion of the Master's Thesis and oral defense shall replace items 3 and 4 listed above.

Additional Program Requirements

1. Students must pay for and pass both a background/crime records check and drug test prior to their first clinical placement. The CSD Background Check and Drug Testing Policy and Procedure document is available in the School of Health Care Professions Office (Professional Building, room 237).

2. Students will also be required to provide their Praxis examination scores to the department prior to graduation.

Retention Requirements

1. To remain in the program, a student must maintain a GPA of 3.00.
2. No course with a grade below a "C" may be applied to a graduate degree.
3. Any grade below a "C-" in any given course, didactic or clinical, is not acceptable and may be grounds for dismissal from the CSD program.
4. The accumulation of more than 9 hours of "C+" or below in academic and/or practicum courses will result in dismissal from the program.
5. Students must progress satisfactorily through the levels of clinical practicum as defined in the Clinic Handbook.
6. Clinical hours from clinical classes where a grade of "C" or less was earned will not be counted toward required clinical experiences.
7. While grades are important, the student's continuation in the CSD Program is based on the composite picture of the ability of the student to perform satisfactorily in the clinical phase of training as well as the academic components.

The School of Health Care Professions reserves the right to refuse enrollment or program continuation to any student. This refusal will be determined by the judgment of the CSD Graduate Faculty and the Director of the School of Health Care Professions based upon the student's ability to successfully complete clinical practicum assignments or to assume patient care responsibilities and/or function as a clinician/teacher. Additionally, if a student has failed to demonstrate an attitude of professionalism as judged by the CSD Graduate Faculty and Director of the School of Health Care Professions, a student maybe dismissed from the program.

According to the Missouri State University Code of Student Rights and Responsibilities, the Codes of Ethics of American Speech-Language-Hearing Association, Council for Exceptional Children (CEC), and requirements of the School of Health Care Professions, academic integrity and honesty are the foundation of the University community. Students are expected to practice academic and clinical integrity in all assigned work. Students are also expected to be honest in all interactions with other students, faculty, and staff, and be professional in attitude, actions and attire.

The University, and the School of Health Care Professions, has the inherent right to promulgate appropriate rules and regulations for the orderly conduct of University business and the protection of the health and safety of the University community. Students are expected to comply with all published and stated rules and regulations. If a student is accused of violating any code (theft, academic dishonesty, possession of drugs, etc.) they will be subject to warnings, loss of privileges, probation, suspension, and/or dismissal.

Speech-Language Pathology Master's Curriculum

- CSD 702 - Research Methods for the Health Professions
- CSD 712 - Child Language and Literacy
- CSD 718 - Fluency Disorders
- CSD 720 - Voice and Upper Airway Disorders
- CSD 724 - Aphasia and Cognition
- CSD 725 - Motor Speech Disorders
- CSD 728 - Advanced Study of Phonological (Sound System) Disorders in Children
- CSD 732 - Autism Spectrum Disorders and Special Populations
- CSD 733 - Introduction to Augmentative and Alternative Communication
- CSD 736 - Diversity, Equity, and Inclusion in Communication Sciences and Disorders
- CSD 741 - Adult Dysphagia
- CSD 743 - Pediatric Dysphagia
- CSD 791 - Professional Issues in Speech-Language Pathology
- CSD 794 - Orientation to Clinic Speech Pathology

- 13 credits of CSD 795 - Advanced Clinical Practice
- 6 credits of CSD 797 - Speech-Language Pathology Externship
- CSD 866 - Counseling in Audiology and Speech-Language Pathology

- 3 credits of CSD 784 - Non-Thesis Project
OR
- 6 credits of CSD 799 - Masters Thesis

Total Credit Hours: 59 to 62

Doctoral Programs

Audiology, AuD

Program Description

The AuD program in the School of Health Care Professions is a full-time doctoral program requiring a minimum of 97 credit hours based on transcript evaluation, over approximately four (3) years consisting of both academic course work and clinical practicum.

The AuD program is designed to prepare professionals to enter the workplace with a high level of skills and knowledge through intensive academic and clinical experiences. The program is designed to prepare a person for a career in the hospitals, private practice settings, industrial settings, medical offices, clinical settings and rehabilitation centers.

Admission Requirements - Accelerated and Regular program

Completed application must be received by CSDCAS and noted as complete by February 1 to be considered for the fall semester. No official offer can be extended until applications are verified. The number of students who can enter the program each year is limited.

There are two admission processes for the Doctor of Audiology program, depending upon whether a student is admitted through the accelerated track, which begins in the senior year of the UG program or the traditional track, which begins after the UG degree has been awarded. Please be sure to follow the appropriate application process. If you are unsure which of the following two options to follow, please contact the Director of the School of Health Care Professions.

- Applicants applying to the Doctor of Audiology program via the traditional track will start their graduate course work after obtaining a Bachelor's degree. Applications must be submitted via the CSDCAS application service, and be marked "complete" in CSDCAS by February 1 to be considered for admission for the following fall semester. For instructions on the application process, please visit the CSDCAS website. For those applicants that are selected and accept admission to the Doctor of Audiology program, data from the CSDCAS application can be sent to the Graduate College. Thus, it is not necessary to complete an application to the Graduate College.
- Applicants applying to the Doctor of Audiology program via the accelerated track will start their graduate course work during the senior year of their undergraduate program. Applications must be submitted via the CSDCAS application service by February 1 in the spring **prior to** the senior year to be considered for the following fall semester. For instructions on the application process, please visit the CSDCAS website.

- Before enrolling in a course to be counted for both undergraduate and graduate credit, an undergraduate student must be accepted into the accelerated program and receive prior approval from the Director of the School of Health Care Professions, and the Dean of the Graduate College using a Mixed Credit Form. Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the semester. Once admitted, up to 12 hours of coursework can count toward both the undergraduate and graduate degree.

Admission to the program is competitive. Because the accelerated track is more rigorous than the traditional track, accelerated students must meet more stringent admission prerequisites, which include additional coursework in the sciences. Students should contact the Director of the School of Health Care Professions for details regarding prerequisites.

Full admission to the accelerated program shall be based on the following components and application requirements/deadlines:

1. Students must complete at least 75 hours of coursework at the undergraduate level, including college algebra, chemistry, biology, and physics. Please contact the Director of the School of Health Care Professions to determine which science classes are acceptable.
2. Students must have a cumulative GPA of at least 3.50 (4.00 scale) on all coursework attempted, including transferred work.
3. Students must submit three letters of recommendation. At least two of the three must speak to the student's academic potential for graduate school (i.e., current/former instructors/professors).
4. Students must submit evidence of job shadowing experience. At least 25 hours of shadowing experience is required **prior** to application to the accelerated program. An additional 15 hours of shadowing will be required prior to initiation of graduate coursework in the senior year.

Full admission to the program via the traditional track shall be based on the following components and application requirements/deadlines:

1. A Bachelor's degree from a regionally accredited university. While a degree in CSD is not necessary, undergraduate course work must include a biology course (or closely related, as determined by the director), a physics or chemistry course, as well as a mathematics (or a statistics) course.
2. Students must have a cumulative GPA of at least 3.00 (4.00 scale) on all coursework attempted, including transfer work.
3. Students must submit three letters of recommendation. At least two of the three must speak to the student's academic potential for graduate school (i.e., current/former instructors/professors).
4. Students are encouraged to job shadow. Ideally, a student with a CSD background would obtain about 25 hours of shadowing and students from non-CSD background are encouraged to earn about 40 hours. Hours can be documented by a letter from an audiologist that was shadowed.

CSDCAS application service. Students will submit applications through a site called CSDCAS. For instructions on the CSDCAS application process, please visit the CSDCAS website.

The school may contact a student at various times during the application process about his/her status. If students would like to schedule a visit to the school, please contact the School of Health Care Professions office at 417-836-5368 or emailcsd@missouristate.edu.

Program Requirements

A minimum of 97 semester hours shall be completed, including the following:

1. Academic course work requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC-A).
2. Clinical practicum requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association (CCC-A).
3. Completion of a Doctoral Project or Thesis.
4. Comprehensive Examinations.
5. Praxis examination scores must be submitted prior to graduation.

6. Clinical Externship

Additional Program Requirements

Students must pay for and pass both a background/crime records check and drug test prior to their first clinical placement. The CSD Background Check and Drug Testing Policy and Procedure document is available in the School of Health Care Professions Office (Professional Building, room 237).

Retention Requirements

1. To remain in the program, a student must maintain a cumulative GPA of 3.00 in their graduate coursework.
2. To remain in the program, student must earn a "C" or better in all courses. Any grade of "C-" or below will not count toward the graduate degree and may be grounds for dismissal from the CSD program. Additionally, accumulation of more than 9 hours of grade "C+" or below will result in program dismissal. Clinical hours from a class where a grade of "C+" or below was earned will not be counted toward required clinical experiences.
3. Students must progress satisfactorily through the levels of clinical practicum as defined in the Clinic Handbook. Dismissal from a clinical offsite or externship experience will automatically result in a grade of "F" and program dismissal unless it can be proven that extenuating circumstances were present.
4. Professionalism is expected and HIPAA policies are enforced. Student who violate HIPAA policies and/or display a lack of professionalism (in on-campus classes and clinical experiences as well as off-campus clinical placements) will be subject to program dismissal.
5. While grades are important, the student's continuation in the CSD Program is based on the *composite picture* of the ability of the student to perform satisfactorily in the clinical phase of training as well as the academic components.

The School of Health Care Professions reserves the right to refuse enrollment or program continuation to any student. This refusal will be determined by the judgment of the CSD Graduate Faculty and Director of the School of Health Care Professions based upon the student's ability to successfully complete clinical practicum assignments or to assume patient care responsibilities and/or function as a clinician/teacher.

According to the Missouri State University Code of Student Rights and Responsibilities, The Codes of Ethics of American Speech-Language-Hearing Association, Council for Exceptional Children (CEC), and requirements of the School of Health Care Professions, academic integrity and honesty are the foundation of the University community. Students are expected to practice academic and clinical integrity in all assigned work. Students are also expected to be honest in all interactions with other students, faculty, and staff, and be professional in attitude, actions and attire.

The University, and the School of Health Care Professions, has the inherent right to promulgate appropriate rules and regulations for the orderly conduct of University business and the protection of the health and safety of the University community. Students are expected to comply with all published and stated rules and regulations. If a student is accused of violating any code (theft, academic dishonesty, possession of drugs, etc.) they will be subject to warnings, loss of privileges, probation, suspension, and/or dismissal.

Doctor of Audiology (AuD) curriculum - Total hours 97-9809

- CSD 702 - Research Methods for the Health Professions
- CSD 736 - Diversity, Equity, and Inclusion in Communication Sciences and Disorders
- CSD 807 - Auditory System: Physiology/Neurophysiology
- CSD 834 - Diagnostic Audiology
- CSD 835 - Auditory Electrophysiology I
- CSD 842 - Vestibular Assessment and Rehabilitation
- CSD 848 - Cochlear Implants and Other Assistive Listening Devices

- CSD 849 - Basic Audiometry
- CSD 850 - Pediatric Audiology
- CSD 852 - Advanced Hearing Science
- CSD 866 - Counseling in Audiology and Speech-Language Pathology
- CSD 868 - Amplification Systems I
- CSD 875 - Medical Audiology
- CSD 876 - Hearing Conservation and Calibration
- CSD 879 - Practice Management and Professional Issues in Audiology
- 3 credits of CSD 880 - Grand Rounds in Audiology
- 14 credits of CSD 895 - Advanced Clinical Practice
- CSD 945 - Central Auditory Processing Disorders
- CSD 972 - Advanced Auditory Re/Habilitation
- 24 credits of CSD 996 - Audiology Externship

- 5 credits of CSD 884 - Doctoral Project
- **OR**
- 6 credits of CSD 999 - Doctoral Thesis

Program Accreditation

The AuD program is accredited by the Council on Academic Accreditation (CAA) of the American Speech-Language-Hearing Association.

Nurse Anesthesia Practice, DNAP

Program Description

The Missouri State University School of Anesthesia is a 36 month program that provides the scientific foundation and clinical training that prepares anesthesia providers as certified registered nurse anesthetists (CRNA) at the clinical doctorate level.

Program Accreditation

The Missouri State University School of Anesthesia is fully accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs, the official accrediting agency for nurse anesthetists. They may be contacted at 10275 W. Higgins Rd, Suite 906, Rosemont, IL 60018-5603; Phone: 224-275-9130.

Entrance Requirements

All applicants must meet the following requirements:

1. A bachelor's degree in an area of life science, nursing, or chemistry from an accredited institution in the U.S. or equivalent training in a foreign country;
2. Undergraduate work must include inorganic chemistry (4 hrs), organic chemistry (3 hrs), microbiology, human anatomy, human physiology, and genetics (strongly recommended);
3. A minimum grade point average (GPA) of 3.00 on a 4.00 scale for the last 60 hours of coursework. Emphasis will be placed on science courses;

4. Submission of official Graduate Record Examination (GRE) scores taken no earlier than five years prior to application with a preferred minimum score of 153 in Verbal Reasoning, 150 in Qualitative Reasoning, and 3.5 in Analytical Writing, or successful passing of the CCRN exam (preferred);
5. Current licensure as a registered nurse in the U.S.;
6. A minimum of one year experience in an acute care setting is required;
7. **Current** BLS, ACLS, PALS certification are required;
8. A personal interview with a screening committee;
9. The application deadline is June 30th. Interviews are scheduled within 3 months of the application deadline;
10. Students are required to complete a criminal background check and a drug screen prior to beginning classes;
11. Students will pay the current association fee to the American Association of Nurse Anesthetists (AANA) for an associate membership during the initial semester of the program.
12. A \$500.00 confirmation deposit is required to hold a seat in the class once a student has accepted a cohort position. The fee is required to be paid to Missouri State University and is used as part of the first semester's tuition.

Degree Requirements Minimum Credit Hours: 119 - BS - DNAP

ANE Courses Credit Hours: 113

- ANE 700 - Informatics and Graduate Studies for Anesthesia
- ANE 702 - Clinical Conference I
- ANE 705 - Clinical Conference II
- ANE 708 - Clinical Conference III
- ANE 711 - Clinical Conference IV
- ANE 714 - Orientation to Clinical Anesthesia
- ANE 720 - General Principles of Anesthesia
- ANE 721 - Equipment, Instrumentation, and Technology for Anesthesia
- ANE 726 - Introduction to Clinical Anesthesia
- ANE 732 - Anesthesia for Surgical Procedures and Special Populations I
- ANE 734 - Advanced Physical Assessment and Clinical Reasoning
- 44 credits of ANE 735 - Clinical Practicum
- ANE 742 - Clinical Physiology
- ANE 745 - Anesthesia Pharmacology I
- ANE 746 - Anesthesia Pharmacology II
- ANE 750 - Anesthesia for Surgical Procedures and Special Populations II
- ANE 754 - Healthcare Ethics for Anesthesia Providers
- ANE 800 - Leadership for Evidence-Based Practice
- ANE 803 - Human Factors and Patient Safety for Healthcare
- ANE 804 - Business of Anesthesia
- ANE 806 - Professional Practice in Anesthesia
- ANE 807 - Anesthesia and Healthcare Policy
- ANE 810 - Health and Wellness in the Healthcare Setting
- ANE 897 - Research for Scholarly Project
- ANE 898 - Capstone Project Presentation

Non-ANE Courses Credit Hours: 6

- BMS 620 - Medical Cell Biology
- BMS 728 - Human Neurophysiology and Anatomy

Research/Capstone Requirement Total Credit Hours: 6

Each student will complete a Capstone project. This project must be started in the ANE 897 class and completed in the ANE 898 class. Students are allowed to work in groups of 2, or maximum 3, if approved by the Program Director.

Certified Registered Nurse Anesthetist (MS - DNAP)

Students who have already completed the CRNA certification at the Master's level, can be admitted into the completion program, requiring 27 hours for completion. These hours may be completed via distance and may be completed on a part-time or full-time basis. Completion Program Additional Requirements: (a) Current Valid CRNA License; and (b) transcript from all completed college coursework.

Completion program - One Year Program Credit Hours: 27

- ANE 800 - Leadership for Evidence-Based Practice
- ANE 803 - Human Factors and Patient Safety for Healthcare
- ANE 804 - Business of Anesthesia
- ANE 806 - Professional Practice in Anesthesia
- ANE 807 - Anesthesia and Healthcare Policy
- ANE 810 - Health and Wellness in the Healthcare Setting
- ANE 897 - Research for Scholarly Project
- ANE 898 - Capstone Project Presentation
- ANE 754 - Healthcare Ethics for Anesthesia Providers

Completion program - Two Year Program Credit Hours: 27

First Year

- ANE 800 - Leadership for Evidence-Based Practice
- ANE 803 - Human Factors and Patient Safety for Healthcare
- ANE 804 - Business of Anesthesia
- ANE 810 - Health and Wellness in the Healthcare Setting
- ANE 897 - Research for Scholarly Project
- ANE 754 - Healthcare Ethics for Anesthesia Providers

Second Year

- ANE 806 - Professional Practice in Anesthesia
- ANE 807 - Anesthesia and Healthcare Policy
- ANE 898 - Capstone Project Presentation

Completion program - Three Year Program Credit Hours: 27

First Year

- ANE 800 - Leadership for Evidence-Based Practice

- ANE 810 - Health and Wellness in the Healthcare Setting
- ANE 754 - Healthcare Ethics for Anesthesia Providers

Second Year

- ANE 803 - Human Factors and Patient Safety for Healthcare
- ANE 804 - Business of Anesthesia
- ANE 897 - Research for Scholarly Project

Third Year

- ANE 806 - Professional Practice in Anesthesia
- ANE 807 - Anesthesia and Healthcare Policy
- ANE 898 - Capstone Project Presentation

Additional Requirements or Limitations

1. The candidate must maintain a minimum GPA of at least 3.00 each semester for the degree.
2. All requirements must be satisfied within eight years.
3. Six semester credit hours (or the equivalent in quarter hours) of credit may be transferred into the program from an accredited University Graduate Program, after approval by the Graduate College and Program Director).
4. All coursework must be approved by the Program Director.
5. The candidates must pass a written comprehensive examinations.
6. No more than 5 hours of C grade is allowed during the program.
7. Candidates who do not achieve the academic standards set forth by the program will be immediately dismissed.
8. For MS to DNAP candidates, an \$900 fee will be applied to each class.

Nursing Practice, DNP

Program Description

The School of Nursing Doctor of Nursing Practice (DNP) program is designed to prepare graduates for advanced nursing practice. Our DNP program will graduate nursing leaders who have the knowledge and skills to address the health disparities of vulnerable populations, including rural. The program will prepare graduates to function in a variety of community and acute care health settings as primary care providers, leaders, managers, educators, and consultants.

Program Options

The BSN to DNP program has options in either Practice Leadership, Adult Gerontology-Acute Care Nurse Practitioner, Family Nurse Practitioner, and Psychiatric-Mental Health Nurse Practitioner.

Each option will prepare graduates to practice in the advanced nursing role. The Practice Leadership option consists of online courses and the NP program consists of both online and on-campus courses. The student is required to hold licensure as a registered nurse in the U.S.

The Post-Master's (PM) DNP-Leadership Program is a 32 credit hour (minimum) online program for nurses with a Master's in Nursing degree. The online program can be completed with full-time study in 5 semesters, or in part-time study.

Accreditation

The Doctor of Nursing Practice program at Missouri State University is accredited by the Commission on Collegiate Nursing Education: www.aacnnursing.org/CCNE.

Application Process

1. Submit an application to NursingCAS with all required documentation, including transcripts and references. The application fee does not guarantee acceptance into the desired program of your choosing.
2. Submit transcripts of all completed academic coursework. Post-Master's applicants must have a cumulative GPA of all previous graduate-level education coursework of 3.25 (on a 4.00 scale), BSN to DNP applicants must have a cumulative GPA of 3.25 for the last 60 hours of coursework attempted. Students who have less than a 3.25 GPA must submit verbal, quantitative, and analytical writing scores on the Graduate Record Examination General Test (GRE) (minimum Verbal: 150; Quantitative: 145; Analytical Writing: 3.5).
3. Submit proof of completion of all prerequisite courses. BSN to DNP requires: undergraduate human pathophysiology, nursing research, health assessment healthcare informatics and graduate-level inferential statistics with a grade of "C" or higher. Post-Master's requires: graduate human pathophysiology, graduate health assessment, graduate pharmacology, graduate epidemiology, graduate-level inferential statistics, and healthcare informatics, with a grade of "C" or higher before the program begins. Admission will be contingent on the student completing prerequisite courses prior to enrolling in DNP courses.
4. Submit evidence of completed clinical practice experience that equates with one year minimum (two or more preferred) of full-time experience. Exceptions considered on individual basis.

BSN to DNP Core Requirements Credit Hours: 43

- NUR 703 - Population Health: A Local to Global Perspective
- NUR 710 - Clinical Epidemiology
- NUR 711 - Advanced Roles and Leadership in Nursing
- NUR 772 - Research Methods for the Health Professions
- NUR 800 - DNP Leadership I: Concepts for Evidence-Based Practice
- NUR 802 - Emerging Science and Methods of Advanced Practice
- NUR 810 - Finance Management and Entrepreneurship for Advanced Nursing Roles
- NUR 824 - Health Policy to Improve Health Disparities
- NUR 830 - DNP Leadership II: Impacting Disparities in Health and Healthcare
- NUR 840 - Technology for Transforming Nursing and Healthcare Systems
- NUR 860 - DNP Leadership III: Transforming Systems
- NUR 880 - Leadership and Innovation in Nursing
- NUR 993 - Transforming Practice

Adult Gerontology Acute Care Option Courses Credit Hours: 39

- NUR 729 - Acute Care Treatment Modalities I
- NUR 734 - Advanced Physical Assessment and Clinical Reasoning
- NUR 735 - Acute Care Treatment Modalities II

- NUR 745 - Acute Care I
- NUR 755 - Acute Care II
- NUR 761 - Advanced Pharmacotherapeutics and Prescriptive Practices for the Advanced Practice Nurse
- NUR 765 - Applications of Advanced Pathophysiology
- NUR 775 - Acute Care III
- NUR 790 - Advanced Practice Practicum

Family Nurse Practitioner Option Courses Credit Hours: 37

- NUR 730 - Family Practice I
- NUR 734 - Advanced Physical Assessment and Clinical Reasoning
- NUR 750 - Family Practice II
- NUR 761 - Advanced Pharmacotherapeutics and Prescriptive Practices for the Advanced Practice Nurse
- NUR 765 - Applications of Advanced Pathophysiology
- NUR 770 - Family Practice III
- NUR 790 - Advanced Practice Practicum

Practice Leadership Option Courses Credit Hours: 20

- NUR 733 - Advanced Physical Assessment and Health Promotion
- NUR 740 - Advanced Pathophysiology
- NUR 763 - Advanced Pharmacology
- NUR 789 - Organizational Leadership
- NUR 791 - Practice Leadership Practicum I
- NUR 792 - Practice Leadership Practicum II
- NUR 793 - Practice Leadership Clinical Immersion

Psychiatric Mental Health Nurse Practitioner Option Courses Credit Hours: 37

- NUR 731 - Psychiatric-Mental Health Practice I
- NUR 734 - Advanced Physical Assessment and Clinical Reasoning
- NUR 751 - Psychiatric-Mental Health Practice II
- NUR 761 - Advanced Pharmacotherapeutics and Prescriptive Practices for the Advanced Practice Nurse
- NUR 765 - Applications of Advanced Pathophysiology
- NUR 771 - Psychiatric-Mental Health Practice III
- NUR 790 - Advanced Practice Practicum

Post-Master's DNP-Leadership

Course Requirements: Credit Hours: 32

- NUR 800 - DNP Leadership I: Concepts for Evidence-Based Practice
- NUR 802 - Emerging Science and Methods of Advanced Practice
- NUR 810 - Finance Management and Entrepreneurship for Advanced Nursing Roles
- NUR 824 - Health Policy to Improve Health Disparities
- NUR 830 - DNP Leadership II: Impacting Disparities in Health and Healthcare

- NUR 840 - Technology for Transforming Nursing and Healthcare Systems
- NUR 860 - DNP Leadership III: Transforming Systems
- NUR 880 - Leadership and Innovation in Nursing
- NUR 993 - Transforming Practice

Retention & Persistence Requirements

Maintain a GPA of 3.00, with no more than one course with a grade of "C", and no course with a grade of "D" or lower. Receive a "pass" in all clinical evaluations.

Occupational Therapy, OTD

Program Description

The Doctor of Occupational Therapy, Entry-Level curriculum prepares students to be reflective practitioners in traditional and emerging areas of practice. Occupational therapists work with persons, groups, and populations across the lifespan to promote and facilitate participation in all aspects of daily life through the therapeutic use of occupations (life activities). The entry-level doctoral program prepares graduates to practice in a variety of settings such as hospitals, homes, private practice, rehabilitation facilities, schools, community organizations, government or global agencies, industry, academia, and research centers. Doctoral students will complete an independent Capstone project of their choosing to demonstrate the ability to synthesize and apply in-depth knowledge of an area of occupational therapy.

The Doctor of Occupational Therapy, Post Professional curriculum is for individuals who hold certification and licensure as occupational therapists. The OTD program will provide post-professional graduate education opportunities to currently practicing occupational therapists with a bachelor or a master's degree and are interested in advancing their professional careers within the following focus areas: clinical practice, research skills, administration, program and policy development, advocacy, education, and theory development. The post professional curriculum is online and can be completed on a part-time or full-time basis while maintaining employment.

Accreditation

The entry-level occupational therapy doctoral degree program has applied for accreditation by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), located at 6116 Executive Boulevard, Suite 200, North Bethesda, MD 20852-4929. ACOTE's telephone number c/o AOTA is (301) 652-AOTA and its web address is www.acoteonline.org. The program must be granted Candidacy Status, have a pre accreditation review, complete an on-site evaluation, and be granted Accreditation Status before its graduates will be eligible to sit for the national certification examination for the occupational therapist administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be an Occupational Therapist, Registered (OTR). In addition, all states require licensure in order to practice; however, state licenses are usually based on the results of the NBCOT Certification Examination. Note that a felony conviction may affect a graduate's ability to sit for the NBCOT certification examination or attain state licensure.

Students must complete 24 weeks of Level II fieldwork as well as an individual 14-week capstone experience within 24 months following the completion of the didactic portion of the program. The doctoral capstone experience must be started after completion of all coursework and Level II fieldwork as well as completion of preparatory activities defined in 2018 ACOTE OTD Standard D.1.3.

Admission Requirements

Entry Level Admission Requirements

To be considered for admission to the entry-level Doctor of Occupational Therapy (OTD) Program, a prospective student must apply to the MSU Doctor of Occupational Therapy Program via the Occupational Therapist Centralized Application Services (OTCAS) (www.otcas.org).

Admission to the OTD Program is competitive; not all that apply will be admitted. Students who are not accepted into the program may apply for the next application deadline. Complete applications will be reviewed by the OTD Program Admissions Committee. A select number of applicants will be invited for a personal interview.

Selection for an interview and final admission decisions will be based on the following:

1. Submission of an application to the OTCAS that must include a personal statement (following OTCAS requirements); two letters of recommendation that include one letter from an academic source (advisor, instructor, etc.), and one letter from a licensed occupational therapist, documented evidence of a minimum of 20 hours of observation of occupational therapy. Observation in at least two different areas of practice is encouraged.
2. Attainment of a cumulative grade point average (GPA) of no less than 3.00 on a 4.00 scale.
3. For international applicants, submission of proof of English proficiency. Refer to both Graduate College and International Services websites (<https://graduate.missouristate.edu/> or <https://international.missouristate.edu/services/>).
4. Possession of a baccalaureate degree from a regionally accredited institution prior to matriculation. The undergraduate degree may be in any field, but students must complete the following prerequisites (or their equivalents) listed below with a "C" or higher prior to entering the program:
5. English: 6 hrs (ENG 110 and ENG 210 (GEC 105)
6. College Algebra or higher: 3 hrs (MTH 134 or higher)
7. Statistics: 3 hrs (MTH 340, MTH 545, QBA 237, PSY 200, SOC 302, BIO 550)
8. Introductory Chemistry with lab: 4-5 hrs (CHM 116 and CHM 117 or CHM 160 and CHM 161)
9. Introductory Psychology: 3 hrs (PSY 121)
10. Abnormal Psychology: 3 hrs (PSY 304)
11. Human Development over the Lifespan: 3 hrs (CFD 155; may be met by completing sequence of courses covering development across the lifespan in Psychology - PSY 331, PSY 350, and PSY 441)
12. General Biology/Biomedical Sciences with lab: 4-5 hrs (BIO 121, or BMS 110 and BMS111)
13. Human Anatomy with lab: 4 hrs (BMS 307)**
14. Human Physiology with lab: 4 hrs (BMS 308)**
**If students take a combined course, it must be taken across two semesters for a total of at least 8 credit hours to meet admission criteria; a single combined anatomy and physiology course WILL NOT be accepted.
15. Introductory Sociology or Cultural Anthropology: 3 hrs (SOC 150, ANT 125)
16. Medical Terminology: 1-3 hrs (LLT 102)
17. U.S. Government or U.S. History: 3 hrs (PLS 101, HST 121, HST 122)

Post-Professional Admission Requirements

To be considered for admission to the post-professional Doctor of Occupational Therapy (OTD) program, a prospective student must apply to the Doctor of Occupational Therapy program via the MSU's main application, GradCAS (<https://www.missouristate.edu/FutureStudents/graduate-application.htm>).

Only applicants accepted into the OTD program will be required to apply to the MSU Graduate College. The OTD program admissions committee will review complete applications. A select number of students will be invited for video-conference interviews.

Selection for an interview and final admission decisions will be based on the following:

1. Possession of a license in occupational therapy with the equivalent of one year of clinical practice.

2. Possession of a bachelor's degree in Occupational Therapy or a master's degree in Occupational Therapy and a cumulative grade point average (GPA) of no less than 3.00 on a 4.00 scale.
3. Submission of a transcript from the institution where the highest degree in Occupational Therapy was conferred.
4. Submission of a copy of the current state occupational therapy license or international equivalent.
5. Submission of a copy of current NBCOT certification or international equivalent (Graduation from the World Federation of Occupational Therapy program).
6. Submission of a current curricular vitae.
7. Submission of two letters of recommendation from professional colleagues who can speak to the applicant's intellectual ability, professional competence, and leadership ability. At least one letter must be from an occupational therapist.
8. Submission of a personal statement.
9. For international applicants, submission of proof of English proficiency. Refer to both Graduate College and International Services websites: <https://graduate.missouristate.edu/> and <https://international.missouristate.edu/Services/requirements-for-graduate-admissions.htm>.

OTD Transfer of Credit Policy

On a case-by-case basis, the OTD Admissions Committee may accept graduate credit earned at a regionally accredited entry-level Master of Occupational Therapy program. Acceptance of transfer credits on a graduate degree program occurs through recommendation of the student's major advisor at the institution of program of study, the OTD Admissions Committee, and approval of the MSU Graduate College. Transfer hours may count for up to 30% of the Program of Study. Transfer credits must have been earned within five-years of the time of admission to the OTD program. Grades on transfer courses accepted in the degree program are included in the overall graduate grade point average.

A student requesting transfer credit is responsible for providing an official course syllabus from the school from which the student received the academic credit. The syllabus will be reviewed in terms of the doctoral level standards assigned to the MSU course. If the objectives are directly aligned with the MSU OTD objectives for the course and the student earned a B or higher, transfer credit may be granted for an MSU OTD course.

OTD Experiential Learning/Work Experience Related Policy

Work experience will not be awarded credits required to graduate from the OTD program. The OTD admission committee and the program director will determine if previous work experience may be counted as the observation or volunteer hours needed for admission to the program.

OTD Advanced Placement Policy

Advanced (accelerated) course placement in the entry-level OTD Program is not offered. This does not refer to high school advanced placement (AP) credits, which may or may not be applied toward OTD Program prerequisites: <https://www.missouristate.edu/admissions/advancedplacement.htm>

OTD Additional Requirement

Once accepted to the OTD program, all students must provide the following:

1. A non-refundable confirmation deposit of \$500 to the OTD program to reserve a seat in the incoming class. Upon admission into the OTD program, this fee will be applied to the fall session tuition.

2. Current CPR and AED certification.
3. Evidence of current physical examination indicating good physical health, a TB skin test or chest X-ray, and up-to-date immunizations (MMR, tetanus, and a complete Hepatitis B Series).
4. A Signed acknowledgment of the capacity to meet the technical standards and tasks required of an occupational therapist.
5. Ongoing security checks and annual drug screening required by clinical agencies. Students must submit drug screening test and criminal record check and receive a response that the student has not been convicted of any crime according to Section 660.317 RSMO or other disqualifications that would prohibit licensure as a Registered Occupational Therapist.
6. Students who fail these checks or procedures will be subject to further review by the OTD program admissions committee. This may result in dismissal from the OTD program.
7. Evidence of professional association memberships, liability insurance, and health insurance.
8. Signed acknowledgment of The American Occupational Therapy Association's Occupational Therapy Code of Ethics and Ethics Standards to which all OTD students will adhere.

OTD Retention Requirements

After admission into the OTD Program, a student must achieve the following for retention in the program:

1. Maintain a GPA of 3.00, with no more than 9 semester hours of graduate work below a grade of "B", and no hours of graduate work below a "C".
2. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of healthcare professionals.
3. Demonstrate acceptable professional progression in application of skills and knowledge.
4. Maintain current health and liability insurance.
5. Maintain current CPR and AED certification.
6. Must complete Doctoral Capstone Experience and Project requirements.
7. Must complete the program within seven years of the start of the program.
8. Approval of the plan of study by the Program Director.

Additionally, entry-level OTD students must complete Level II Fieldwork and experiential requirements within 24 months following completion of the didactic portion of the program.

Students who fail to meet the retention criteria may:

1. Be placed on academic or clinical probation in the OTD program.
2. Be dismissed from the program, based on the judgment of most of the Program Director, and OT Faculty Retention Committee.

Students who fail to meet the probationary criteria or are dismissed from the program are not eligible for readmission into the OTD Program. Students have the right to follow the University's appeal process on any disciplinary sanction received. Students should refer to the Missouri State University Occupational Therapy Student Handbook for additional policies and procedures.

Doctoral Capstone Experience and Project (7 hours)

Student must complete doctoral capstone experience and project to graduate from the Doctor of Occupational Therapy Program.

Degree Requirements

Entry Level (99 hours)

- OTE 610 - Foundations and Theory in Occupational Therapy
- OTE 612 - Occupational Development Through the Lifespan

- OTE 615 - Professional Communication and Documentation
- OTE 620 - Psychosocial Perspectives in Occupational Therapy Practice
- OTE 640 - Evidence-Based Practice
- OTE 645 - Clinical Gross Anatomy
- OTE 650 - Clinical Biomechanics in Human Performance
- OTE 720 - Cognition and Occupations Through the Lifespan
- OTE 725 - Environmental Adaptations and Assistive Technology
- OTE 730 - Enablers and Barriers: Adult Occupations
- OTE 731 - Essentials of Research Methods
- OTE 732 - Applied Research Methods in Healthcare
- OTE 745 - Therapeutic Skills I: Adult Practice
- OTE 746 - Management and Policy in Occupational Therapy Practice
- OTE 749 - Enablers and Barriers: Pediatric Occupations
- OTE 750 - Therapeutic Skills II: Pediatric Practice
- 4 credits of OTE 760 - Specialty Topics
- 6 credits of OTE 761 - Level I Fieldwork Seminar
- OTE 780 - Fieldwork Level II, Part 1
- 6 credits of OTE 790 - Fieldwork Level II, Part 2
- 3 credits of OTE 798 - Research Project
- OTE 861 - Occupational Therapist as an Educator
- OTE 880 - Doctoral Capstone I: Project Planning
- OTE 881 - Doctoral Capstone II: Project Proposal
- OTE 901 - Advanced Ethics and Advocacy
- OTE 921 - Cultural and Contextual Influences
- 7 credits of OTE 980 - Doctoral Capstone III: Experience and Project

Post Professional (55 hours)

Foundation Courses (17 hours)

Foundation courses may be taken from the department's master's degree program (courses listed below). Students who hold a master's degree in occupational therapy can be admitted with advanced standing and may not be required to complete additional foundation courses.

- OTE 610 - Foundations and Theory in Occupational Therapy
- OTE 646 - Neuroscience
- OTE 720 - Cognition and Occupations Through the Lifespan
- OTE 731 - Essentials of Research Methods
- OTE 732 - Applied Research Methods in Healthcare
- OTE 765 - Community and Health Practice in Occupational Therapy

Core Courses (38 hours)

- OTE 640 - Evidence-Based Practice
- 3 credits of OTE 760 - Specialty Topics
- OTE 860 - Advanced Clinical Practice
- OTE 861 - Occupational Therapist as an Educator

- OTE 880 - Doctoral Capstone I: Project Planning
- OTE 881 - Doctoral Capstone II: Project Proposal
- OTE 921 - Cultural and Contextual Influences
- OTE 965 - Health Disparities and Social Determinants of Health
- 7 credits of OTE 980 - Doctoral Capstone III: Experience and Project
- Additional Hours in Focus Area (Graduate Certificate) - 12 credits

Pharmacy

The Doctor of Pharmacy program is a cooperative degree with the University of Missouri-Kansas City. For more information, visit Doctor of Pharmacy.

Physical Therapy, Entry-Level Program, DPT

School of Health Care Professions offers a Doctor of Physical Therapy (DPT) program for individuals wanting to enter the profession of physical therapy.

The Doctor of Physical Therapy program at Missouri State University is accredited by the Commission on Accreditation in Physical Therapy Education (CAPTE), 3030 Potomac Ave., Suite 100, Alexandria, Virginia 22305-3085; telephone: 703-706-3245; email: Accreditation@APTA.org; website: capteonline.org

If needing to contact the program/institution directly, please call 417-836-6179 or email PhysicalTherapy@MissouriState.edu.

DPT Program Description

The Physical Therapy curriculum focuses on the academic and clinical foundations necessary for a career in physical therapy. Program graduates are prepared to examine patients with impairments, functional limitations, and disabilities (or other health-related conditions) in order to determine a diagnosis and prognosis relevant to physical therapy. They will be able to design, implement, and modify therapeutic interventions to produce changes in their patients' conditions. Graduates will be prepared to offer a variety of additional services including: (1) prevention, wellness and health promotion; (2) consultation with patients, clients, and other healthcare professionals; (3) screening to identify individuals at risk, or in need of, physical therapy; (4) educating patients, the general public, local, state, and federal health agencies, and other health care professionals; (5) clinical and basic science research; and 6) administration including direction and supervision of support personnel.

The program prepares graduates to practice in a variety of settings such as hospitals, rehabilitation centers, homes, private physical therapy practices, skilled nursing facilities, schools, corporate and industrial health centers, athletic training facilities, fitness centers, sports injury treatment centers, and education or research centers.

Academic and Clinical Standards

The Physical Therapy program enforces high academic standards and ethical behaviors. To remain in the program, students must earn a "C" or better in all academic courses or a pass when pass/not pass grading is used. A student who earns a "D" or "F" in any academic course in the curriculum or receives more than 12 semester hours of "C" will be dismissed from the program. A student who earns a failing mark in a clinical internship may be dismissed from the program.

Admission Requirements

Minimum Requirements

1. Admission into the Physical Therapy Program is highly competitive and the number of students who can be admitted each year is limited; therefore, completion of all prerequisites and other requirements does not assure acceptance into the program. Competitive applicants will be invited for an interview as part of the admission process.
2. The Physical Therapy Program at Missouri State University, Springfield Campus, participates in the Physical Therapist Centralized Application Services (PTCAS). Applicants applying to the program must apply online using the PTCAS application. To learn more about the PTCAS application process, please visit www.apta.org/cas/ptcas. Application deadline is October 1 (all application documents must be received by this date). Classes begin in May of each year.
 - Submit Graduate Record Examination (GRE) scores to PTCAS. No minimum score is required; however, scores among students are compared.
 - Submit two letters of recommendation to PTCAS: one from the applicant's undergraduate advisor at the institution where the majority of science courses were taken, and one from a licensed physical therapist.
 - Complete all other requirements listed in PTCAS.
3. A baccalaureate degree from an accredited college or university. The undergraduate major may be in any field, but students must have completed the prerequisites (or their equivalents) listed under "prerequisite courses".
4. A minimum overall GPA of 3.00 on a 4.00 scale.
5. Ability to meet the technical standards of the program in order to successfully undertake the course of study (available upon request from the program).
6. Verification observation experience is required in at least two (2) different areas of physical therapy specialty.

Program Requirements

Physical Therapy students will be required to:

1. Complete a yearly physical examination including a TB skin test or chest X-ray. In addition, MMR, Hepatitis B, and other vaccinations are required.
2. Have the capacity for performance of the technical standards (essential functions) and tasks required of a physical therapist.
3. Pass periodic drug and alcohol screening and periodic criminal background checks (Missouri State Highway Patrol, Federal Bureau of Investigation, or other approved agency). These program requirements are the result of health organizations' requirements for placement at their clinical sites. Students will be financially responsible for security checks and drug/alcohol screens and for housing/transportation costs during clinical internships. Students who do not pass the appropriate screenings may not be able to complete the program or practice professionally.
4. Maintain current professional liability insurance for the duration of the program.
5. Maintain current health insurance for the duration of the program.
6. Maintain current American Heart Association Basic Life Support Certification for the duration of the program.
7. Maintain current membership in the American Physical Therapy Association for the duration of the program.
8. Abide by the American Physical Therapy Association's Code of Ethics for the Physical Therapist (https://www.apta.org/uploadedFiles/APTAorg/About_Us/Policies/Ethics/CodeofEthics.pdf) and Guide for Professional Conduct (http://www.apta.org/uploadedFiles/APTAorg/Practice_and_Patient_Care/Ethics/GuideforProfessionalConduct.pdf)
9. Abide by the policies and procedures for physical therapy students that are explained in the *Handbook for Physical Therapy Students* at Missouri State University. This handbook may be found online.

Prerequisite Courses

Below is the minimum number of required hours listed by discipline. The course numbers after each discipline indicate those courses offered at Missouri State University that fulfill that prerequisite. Students must complete the courses listed below, or their equivalents, to satisfy the prerequisite. If you have questions regarding the prerequisites, contact the PT Director of Admissions at 417-836-4514. Courses listed below are offered at Missouri State University.

English: 6 Credit hours. English (Composition I & II)

Mathematics: 6 Credit hours. MTH 135 - College Algebra or higher

Statistics: 3 Credit hours. MTH 340 or 545; ECO 308; QBA 237; PSY 200; SOC 220; BIO 550

Physics: 8 Credit hours. PHY 123 & PHY 124

Chemistry: 8 Credit hours. CHM 160 & 161; CHM 170 & 171 OR CHM 201; CHM 202

Psychology: 6 Credit hours. One course should cover basic psychology and one should include abnormal. PSY 121 or 304

General Biology: 8 Credit hours. BIO 121 & 122 or BMS 110 & 111 & 230

Human or Vertebrate Anatomy. 4 Credit hours. BMS 307

Human or Vertebrate Physiology. 4 Credit hours. BMS 308

Recommended courses:

Spanish - SPN 101

Computer Applications for Business - ITC 201

Personal Financial Planning - FIN 381

Management - MGT 286

Introduction to Biochemistry - CHM 350

Interpersonal Communications - COM 205

Applied Behavior Analysis - PSY 508

Cellular Biology - BIO 320

Biomedical Sciences - BMS 240, 260, 450, 467, 563, 567, 585

Communication Sciences & Disorders - CSD 201

Philosophy - PHI 105, 302, 342, 513

Psychology of Childhood - PSY 331

Human Growth & Development - PSY 703 or CFD 155

Social Work - SWK 200

DPT Degree Requirements - Credit Hours: 133

1. Students must successfully complete the 133 hours of the physical therapy curriculum. The courses must be taken in the order and at the time scheduled for each admitted class (cohort group).
2. Research. Students must complete and present a graduate level scholarly product, which is part of the requirement in PTE 880.
3. Comprehensive Examination. Students must pass a comprehensive examination, which is implemented in the curriculum as computer competency testing.

Curriculum

The curriculum is designed sequentially so that courses must be taken in the order and at the time scheduled for each admitted class (cohort group). Any exceptions to the cohort progression requirement must stem from unavoidable and extreme personal circumstances, and must be approved by the core faculty and Department Head.

DPT Program Course Schedule

Summer, Semester 1 (10 Weeks Classroom)

- PTE 707 - Medical Human Anatomy
- PTE 711 - Professional Issues I
- PTE 712 - Clinical Biomechanics for Physical Therapy
- PTE 713 - Embryology

Fall, Semester 2 (17 Weeks Classroom)

- PTE 710 - Introduction to Physical Therapy
- PTE 720 - Neuroanatomy-Neuroscience
- PTE 723 - Patient Management: Musculoskeletal I
- PTE 726 - Clinical Kinesiology for Physical Therapy
- PTE 740 - Essentials of Research Methods
- PTE 760 - Management of Research Projects

Spring, Semester 3 (17 Weeks Classroom)

- PTE 714 - Imaging Analysis in Physical Therapy Practice
- PTE 721 - Professional Issues II
- PTE 722 - Physical Agent and Mechanical Modalities
- PTE 733 - Patient Management: Musculoskeletal II
- PTE 743 - Patient Management: Neuromuscular I
- PTE 750 - Research and Outcome Analysis
- BMS 752 - Medical Physiology

Summer, Semester 4 (7 Weeks Classroom; 4 Weeks Clinical)

- PTE 732 - Electrotherapeutic Modalities and Clinical Electrophysiology
- PTE 737 - Clinical Internship I
- PTE 753 - Patient Management: Neuromuscular II
- PTE 760 - Management of Research Projects
- PTE 773 - Patient Management: Musculoskeletal III

Fall, Semester 5 (11 Weeks Classroom; 6 Weeks Clinical)

- PTE 731 - Pathophysiology/Differential Diagnosis I
- PTE 747 - Clinical Internship II
- PTE 760 - Management of Research Projects
- PTE 763 - Patient Management: Neuromuscular III
- PTE 764 - Patient Management: Exercise Physiology, Nutrition, and Wellness

Spring, Semester 6 (11 Weeks Classroom; 6 Weeks Clinical)

- PTE 730 - Motor Control/Motor Learning
- PTE 741 - Pathophysiology/Differential Diagnosis II
- PTE 744 - Patient Management: Cardiovascular and Pulmonary Problems
- PTE 754 - Patient Management: Special Considerations Across the Life Span
- PTE 757 - Clinical Internship III
- PTE 760 - Management of Research Projects
- Electives **Credit Hours:** 1-2

Summer, Semester 7 (11 Weeks Classroom)

- PTE 756 - Patient Management: Integumentary
- PTE 760 - Management of Research Projects
- PTE 761 - Contemporary Issues in Professional Practice
- PTE 762 - Pathophysiology/Differential Diagnosis III
- PTE 765 - The Physical Therapist as Educator
- PTE 767 - Health Care Systems and the Physical Therapist
- Electives **Credit Hours:** 1-2

Fall, Semester 8 (10 Weeks Classroom; 8 Weeks Clinical)

- PTE 760 - Management of Research Projects
- PTE 871 - Physical Therapy Management and Administration
- PTE 872 - Orthotics, Prosthetics, and Assistive Technologies
- PTE 873 - Patient Management: Advanced Differential Diagnosis
- PTE 877 - Clinical Internship IV
- Electives **Credit Hours:** 1-2

Spring, Semester 9 (3 Weeks Classroom; 14 Weeks Clinical)

- PTE 880 - Research Seminar
- PTE 883 - Patient Management: Critical Integration and Analysis
- PTE 887 - Clinical Internship V
- PTE 888 - Clinical Internship VI
- Elective (Education Abroad) **Credit Hours:** 0-2

Psychology, PsyD

Program Description

The Doctor of Psychology degree (PsyD) is designed to train and develop clinical psychologists to meet the immense mental health challenges that our communities experience today and will continue to face, in the future. The core coursework consists of 118 credit hours that include coursework, practicums, professional seminars, and the completion of a dissertation and internship. Coursework is completed in four years and the dissertation and internship are completed in the final year. A unique feature of this program is that in addition to the core 118 hours, students will also complete a 12-hour specialization in one of three areas: Diversity and Activism, Integrated Health, or Behavior Analysis (meeting the coursework requirements to become a Board Certified Behavior Analyst). Each of these specializations are designed to meet the needs of communities served by clinical psychologists and represent the scope and depth needed to become a competent and effective scientist practitioner.

Admission Requirements

1. A baccalaureate degree from a regionally accredited college or university, including:
 - A cumulative GPA of 3.00 on a 4.00 scale in undergraduate and graduate work
 - Major in psychology or submission of the GRE Psychology Advanced Subject Test scores
2. Submission of GRE Scores including Quantitative, Verbal, and Critical Thinking and Writing
3. A personal statement outlining career goals and preparation for advanced doctoral work in psychology.
4. A diversity statement addressing the importance of diversity, equity, and inclusion in clinical psychology.
5. At least 3 letters of recommendation, including at least 2 from college-level teachers who are well acquainted with the student's academic achievements.
6. A formal interview for selected applicants.

Degree Requirements - Credit Hours: 130

The Doctor of Psychology will be accredited by the American Psychological Association. Consequently, the program reflects the accreditation standards and requirements in addition to the university requirements for doctoral programs. The Doctor of Psychology program includes a core curriculum of 118 credit hours with an additional 12 credit hours in one of three specialization areas (total of 130 credit hours). The program includes the required coursework, a comprehensive examination, practicum and internship experiences, and a doctoral dissertation.

CORE AREA: Theoretical and Scientific Foundations - Credit Hours: 21

- PSY 614 - Introduction to Applied Behavior Analysis
- PSY 703 - Human Growth and Development
- PSY 780 - Social Psychology
- PSY 800 - History and Systems: Orientation to Clinical Psychology
- PSY 801 - Philosophy and Contextual Behavioral Science
- PSY 905 - Biological Basis of Behavior

- PSY 906 - Advanced Cognitive and Affective Psychology

CORE AREA: Research Methods for the Scientist-Practitioner - Credit Hours: 6

- PSY 745 - Statistics and Research Design
- PSY 752 - Research Methods

CORE AREA: Evaluation of Clinical Research and Practice - Credit Hours: 6

- PSY 747 - Single Subject Research Design in Applied Behavior Analysis
- PSY 913 - Program Evaluation and Qualitative Analysis

CORE AREA: Classification and Assessment - Credit Hours: 18

- PSY 720 - Individual Intelligence Testing
- PSY 740 - Psychological Assessment
- PSY 757 - Observational Methods and Functional Assessment
- PSY 766 - Psychopathology
- PSY 823 - Psychopathology II
- PSY 824 - Psychological Assessment II

CORE AREA: Individual and Cultural Diversity - Credit Hours: 9

- PSY 830 - Diversity and Inclusion in Psychology
- PSY 831 - Identity Development
- PSY 932 - Culturally Competent Therapy

CORE AREA: Professional Values and Communication - Credit Hours: 14

- PSY 760 - Clinical Communication Skills
- PSY 761 - Ethical and Professional Issues
- PSY 941 - Supervision, Consultation, and Professional Practice
- 5 credits of PSY 942 - Professional Seminar in Clinical Psychology

CORE AREA: Effective Intervention - Credit Hours: 12

- PSY 850 - Empirically Supported Treatment I
- PSY 851 - Empirically Supported Treatment II
- PSY 952 - Couples and Family Therapy
- PSY 953 - Advanced Clinical Case Conceptualization

CORE AREA: Clinical and Research Experience - Credit Hours: 32

- 14 credits of PSY 890 - Practicum in Clinical Psychology
- 9 credits of PSY 990 - Internship in Clinical Psychology

- 9 credits of PSY 999 - Dissertation in Clinical Psychology

Specialization Area Electives - Credit Hours: 12

SPECIALIZATION AREA: Behavior Analysis - Credit Hours: 12

- PSY 767 - Behavior Disorders of Childhood
- PSY 770 - Behavioral Systems Analysis
- PSY 777 - Conceptual Foundations of Applied Behavioral Science
- PSY 962 - Behavioral Theories of Language and Cognition

SPECIALIZATION AREA: Diversity and Activism - Credit Hours: 12

- PSY 970 - Healing Historical Oppression: Context, Identity, and Intersectionality
- PSY 971 - Mental Health Disparities: Eliminating Barriers to Treatment
- PSY 972 - Governance, Law, and Policy: Advocacy and Activism in Clinical Psychology
- PSY 973 - Multicultural Foundations in Practice: Assessment, Treatment, and Consultation

SPECIALIZATION AREA: Integrated Healthcare - Credit Hours: 12

- PSY 971 - Mental Health Disparities: Eliminating Barriers to Treatment
- PSY 980 - Clinical Health Psychology
- PSY 981 - Integrated Healthcare: Advanced Topics
- PSY 983 - Consultation and Collaboration in Healthcare

Transfer Credits:

Students may receive transfer credit for graduate courses taken at a regionally accredited institution; the Doctor of Psychology program will evaluate transfer graduate credits on a case-by-case basis in accordance with the university Graduate Transfer Credit policy.

Certificates

Adult-Gerontology Acute Care Nurse Practitioner Certificate

Program Description

The School of Nursing offers an Adult Gerontology-Acute Care Nurse Practitioner (AGACNP) Graduate Certificate for nurses who have a minimum of a Master of Science in Nursing (MSN) degree from a nationally accredited nursing graduate program, or possess a minimum of a master's degree in another acceptable discipline. This certificate is for nurses who wish to obtain the knowledge and skills necessary to practice as an advanced practice registered nurse (APRN). The AGACNP provides care to adults with acute, critical, and complex chronic physical and mental illnesses across the entire adult age spectrum from young adults (including late adolescents), to adults and older adults (including frail older adults). AGACNPs are prepared to provide services ranging from disease prevention to critical care to stabilize the patient's condition, prevent complications, restore maximum health and/or provide palliative care. The AGACNP Graduate Certificate curriculum is delivered in an online format.

The AGACNP Graduate Certificate Program is a series of courses totaling a minimum of 20 credit hours and a minimum of 500 clinical hours. Completion of the certificate program will prepare students to take the national AGACNP certification exam(s).

Application Process

The applicant should:

- Submit an application to Nursing CAS with all required documentation, including transcripts, and references. The application fee does not guarantee acceptance into the desired program of your choosing.
- Submit evidence of graduation with a minimum of a Master of Science in Nursing (MSN) degree from a nationally accredited nursing graduate program.
- Submit proof of a cumulative GPA of 3.25 (on a 4.00 scale).
- Submit proof of completing a graduate course in advanced pharmacology that includes prescriptive practices, advanced pathophysiology, and advanced physical/health assessment.
- Interview with a departmental selection committee.

Program Requirements Credit Hours: 20; Minimum 500 Clinical Hours

- NUR 729 - Acute Care Treatment Modalities I
- NUR 735 - Acute Care Treatment Modalities II
- NUR 745 - Acute Care I
- NUR 755 - Acute Care II
- NUR 775 - Acute Care III

Retention & Persistence Requirements

Maintain a GPA of 3.00, with no more than one course with a grade of "C", and no course with a grade of "D" or lower. Receive a "pass" in all clinical evaluations.

Biomolecular Sciences Certificate

Program Description

The Graduate Certificate in Biomolecular Sciences provides a 12-15 credit hour graduate-level experience for those interested in a deeper understanding of the techniques and applications used in the field of Cell and Molecular Biology. The program provides for the acquisition of knowledge and skills necessary for supporting burgeoning scientists in this field. Completion of this certificate can occur as part of the Master's in Biomedical Sciences graduate program.

Admission Requirements

1. Undergraduate GPA of 3.0 or higher
2. GRE score of 290 or higher

Required Courses

- BMS 622 - Molecular Cell Biology
- BMS 625 - Molecular Biology
- BMS 635 - Signal Transduction
OR
- BMS 631 - Cell Biology of Cancer
OR
- BMS 688 - Histology
- BMS 658 - Recombinant DNA and Protein Techniques
OR
- BMS 629 - Molecular Genetics
OR
- BMS 640 - Biotechnology

Retention Requirements

After admission into the Graduate Certificate in Biomolecular Sciences program, the students must maintain a GPA of 3.0 or higher, with no more than one course with a grade of "C", and no course with a grade of "C-" or lower.

Dietetic Internship Certificate

Program Accreditation

The Missouri State University Dietetic Internship Certificate Program has been granted Full Accreditation by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). ACEND is the Academy of Nutrition and Dietetics' accrediting agency for education programs preparing students for careers as registered dietitian nutritionists or nutrition and dietetic technicians, registered. ACEND serves and protects students and the public by assuring the quality and continued improvement of nutrition and dietetics education programs. Programs meeting those standards are accredited by ACEND.

Program Goals

1. Program graduates will be competent for practice as entry-level registered dietitian nutritionists.
2. Program graduates will demonstrate life-long learning skills which will enhance the dietetic profession and demonstrate leadership in the field of nutrition and dietetics.

Admission Requirements

1. Evidence of meeting the minimum academic requirements from an ACEND-approved Didactic Program in Dietetics by a "Verification Statement" or "Declaration of Intent to Complete Degree" and/or ACEND-approved "Minimum Academic Requirements".
2. Completion of the baccalaureate degree from an accredited college or university.
3. Completion of graduate degree.
4. Cumulative GPA of 3.00 over the last 60 hours of academic work taken.
5. Completed application form.
6. A personal philosophy statement addressing the applicant's professional career goals and how the DI program will help accomplish these goals, in addition to discussing the applicant's strengths and areas of improvement.
7. For international applicants, submission of proof of English proficiency. Refer to both Graduate College and International Services websites.

8. Two written recommendations received with the application must be without significant reservations/concern.
 - a. Dietetic academic reference
 - b. Work or volunteer reference
9. Resume which includes:
 - a. Work or volunteer experience, preferably related to nutrition and dietetics
 - b. Involvement in college and/or community activities
10. After the application period closes, the selection committee will review all applications and select students for a virtual interview.

Full admission to the DI program is competitive; not all that apply will be admitted. Students who are not admitted into the program may apply for the next application deadline.

Upon acceptance to the DI, additional requirements include:

1. Meet technical standards of the program in order to successfully undertake the course of study including evidence of good health. These standards are available upon request from the program.
2. Evidence of up-to-date immunizations to include MMR, tetanus, TB test, Hepatitis A, complete Hepatitis B series, and any other vaccinations required by clinical sites.
3. Evidence of health insurance, including hospitalization.
4. Hold and maintain CPR certification valid throughout the DI.
5. Hold ServSafe Certification valid throughout the DI.
6. Student membership in the Academy of Nutrition and Dietetics.
7. Interns must enroll on a full-time basis and progress through the program as a cohort group.
8. Follow program provided instructions to complete a drug screening test and criminal record check* and receive response that the applicant has not been convicted of any crime pursuant to Section 324.217 or other disqualifications that would prohibit licensure as a registered dietitian.

*Students who fail these checks or procedures will be subject to further review by the Nutrition and Dietetic Programs. This may result in dismissal from the program.

Retention requirements

1. Maintain a GPA of 3.00, with no more than 3 semester hours of graduate work of "C+" or lower, and no hours of graduate work below a grade of "C-". Students who do not meet this criterion will need to retake any graduate course that a grade below a "C-" was earned and retake some of the courses where a "C+" or lower was earned if they exceeded the acceptable amount of hours of graduate work below a grade of "C+" in the Program.
2. Receive average (3) or higher rating on all performance evaluations and earn 80% or higher on all coursework that assess the required competencies as set forth by ACEND. Students who do not meet this criterion are to follow the DI performance monitoring and remediation policy found in the student handbook.
3. Demonstrate acceptable levels of maturity and integrity, as well as behaviors and attitudes normally expected of healthcare professionals. Demonstrate acceptable professional progression in application of skills and knowledge.

Students who do not meet this criterion are subject to the DI disciplinary and termination policy found in the student handbook.

Required Courses - Credit Hours: 16

- DTN 740 - Medical Nutrition Therapy I Practicum
- DTN 741 - Medical Nutrition Therapy II Practicum
- DTN 742 - Population Health Nutrition Practicum
- DTN 743 - Food Service Management Practicum
- DTN 744 - Practicum in Area of Concentration
- DTN 750 - Advanced Medical Nutrition Therapy
- DTN 752 - Advanced Population Health Nutrition I

- DTN 753 - Advanced Foodservice Management

Family Nurse Practitioner Certificate

Program Description

The School of Nursing offers a Family Nurse Practitioner (FNP) Graduate Certificate for nurses who have a minimum of a Master of Science in Nursing (MSN) degree from a nationally accredited nursing graduate program, or possess a minimum of a master's degree in another acceptable discipline. This certificate is for nurses who wish to obtain the knowledge and skills necessary to practice as an advanced practice registered nurse. The Family Nurse Practitioner (FNP) option prepares nurses at an advanced level to assess, diagnose, treat, educate, and manage patients throughout the lifespan as a health care provider. The FNP Graduate Certificate curriculum is delivered in a hybrid format. The FNP Graduate Certificate Program is a series of courses totaling a minimum of 24 credit hours and minimum of 500 clinical hours. Completion of the certificate program will prepare students to take the national FNP certification exam(s).

Application Process

The applicant should:

- Submit an application to Nursing CAS with all required documentation, including transcripts, and references. The application fee does not guarantee acceptance into the desired program of your choosing.
- Submit evidence of graduation with a minimum of a Master of Science in Nursing (MSN) degree from a nationally accredited nursing graduate program.
- Submit proof of a cumulative GPA of 3.25 (on a 4.00 scale).
- Submit proof of completing a graduate course in advanced pharmacology that includes prescriptive practices, advanced pathophysiology, and advanced physical/health assessment.
- Interview with a departmental selection committee.

Program Requirements Credit Hours: 24; Minimum 500 Clinical Hours

- NUR 730 - Family Practice I
- NUR 750 - Family Practice II
- NUR 770 - Family Practice III
- NUR 790 - Advanced Practice Practicum

Retention & Persistence Requirements

Maintain a GPA of 3.00, with no more than one course with a grade of "C", and no course with a grade of "D" or lower. Receive a "pass" in all clinical evaluations.

Forensic Child Psychology Certificate

Program Description

A 12 credit hour Missouri State University Graduate Certificate in Forensic Child Psychology (FCP) is available to nondegree-seeking individuals or as a component of the Masters degree in Psychology, experimental track. The certificate is also offered to support professionals in criminology, social work, medicine, and other related specialties. The certificate will not involve training in how to complete forensic interviews; however, it is offered to support professionals who must interact with children in a forensic setting and must take action to safeguard the integrity and reliability of the child's memory of their experiences. It is also useful to help these professionals understand the course and purpose of practices associated with children in the forensic environment, including courtroom experiences.

Admission Criteria

Submit a Graduate College Application to apply for the program. (For those currently attending MSU as a master's student, no additional application fee will be required). Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Admission Deadline

Applications should be submitted at least one month prior to the semester you wish to begin.

Program of Study

Following admission to the certificate program, a student should work with the certificate program advisor to determine which courses will be taken towards the certificate. Keep in mind that courses taken for undergraduate credit cannot be used on the Plan of Study for a graduate certificate.

Required Courses

- PSY 604 - Forensic Child Psychology
- PSY 617 - Psychology of Child Abuse and Exploitation
- PSY 657 - Forensic Psychology: Child Abuse and the Law
- 3 credits of PSY 797 - Directed Research

Total Hours Required: 12

Completion Requirements

During the semester in which the final course requirement is being completed, student's must apply for completion of the certificate. This can be done through the "Graduation Application and Status Review" link in the "Graduation & Commencement" card in My Missouri State.

Prior to applying to complete the certificate, the student must complete and pass a comprehensive examination which covers material from the core courses (PSY 604, PSY 617 and PSY 657). A passing score is 70% correct on this examination.

Health Programming Certificate

Program Description

The Graduate Certificate in Health Programming provides a 12-hour graduate level academic experience. The program involves an in depth study of the methods, theory, approaches and evaluation strategies to health education programs for those that are already working in the field but do not have advanced academic preparation as well as those planning to enter related health fields. All coursework must be approved by the program director. Students must choose the certificate option prior to completing coursework and may not retroactively choose the certificate option based on unsatisfactory progress in the Health Promotion and Wellness Management Master's Degree option.

Admission Requirements

1. Bachelor's degree from an accredited university
2. A cumulative GPA (of all coursework) of 3.00 on a 4.00 scale
3. Two or more years of experience in the health field (to be determined by the graduate program director)
4. Submission of a professional statement of work experience and current resume

Program Requirements

Required Courses Credit Hours: 6

- HLH 750 - Programming Approaches in Wellness/Health Promotion
- HLH 760 - Health Promotion Planning

Complete Two Courses From the Following List Credit Hours: 6

- HLH 710 - Introduction to Health Promotion and Wellness Management
- HLH 752 - Health Risk Identification and Management
- KIN 650 - Organization and Administration for Kinesiology Professionals
- KIN 667 - Physical Activities for the Aging Adult
- KIN 700 - Research Methods in Kinesiology
- KIN 705 - Applied Statistics in Kinesiology
- KIN 755 - Fitness as Preventive Medicine
- HLH 682 - Motivational Interviewing for Health Professionals

Requirements for Completion of Certificate

1. Maintain a 3.00 GPA on all coursework used toward the certificate. No course with a grade of C- or below can be used for the program.
2. Completion of all advisor-approved coursework.
3. Successful completion of comprehensive examinations.

Medical Human Anatomy and Physiology Certificate

Program Description

This certificate is offered by the School of Health Sciences and provides graduate students with in-depth exposure to advanced and clinical courses in anatomy and physiology as they apply to human medicine, to enhance student preparation for further graduate and/or professional study in a variety of health care fields.

Admission Requirements

- Undergraduate degree in STEM field
- Undergraduate GPA of 3.0 or higher

Required courses Credit Hours: 12

Complete at Least One Course in Anatomy From the Following List:

- BMS 645 - Clinical Gross Anatomy
- BMS 682 - Embryology
- BMS 688 - Histology
- BMS 707 - Medical Human Anatomy
- BMS 717 - Medical Human Anatomy and Radiology
- BMS 727 - Human Gross Anatomy

Complete at Least One Course in Physiology From the Following List:

- BMS 641 - Physiology of the Human Cell
- BMS 642 - Physiology of Human Organ Systems
- BMS 660 - Medical Physiology Laboratory
- BMS 661 - Medical and Pathologic Physiology
- BMS 664 - Human Reproductive Physiology
- BMS 665 - Human Cardiopulmonary Physiology
- BMS 667 - Physiology of Exercise Metabolism
- BMS 669 - Neurobiology
- BMS 672 - Human Renal Physiology
- BMS 673 - Endocrine Physiology
- BMS 752 - Medical Physiology

Select Additional Credits From Either the Anatomy or Physiology Lists to Complete 12 Credits.

All Candidates Must Satisfy the General University Certificate Requirements.

Completion Requirements:

After admission into the Graduate Certificate in Medical Human Anatomy and Physiology program, the students must maintain a GPA of 3.0 or higher, with no more than one course with a grade of "C".

Musculoskeletal - Lower Extremity Certificate

Program Description

The Graduate Certificate in Musculoskeletal - Lower Extremity provides 9 hours of advanced musculoskeletal examination and treatment of the hip, knee, ankle and foot. Emphasis is on differential diagnosis and manual treatment approaches. Individuals successfully completing this graduate certificate may be eligible to apply for permission to sit for the International Academy of Orthopedic Medicine (IAOM) Certification in Orthopedic Manual Therapy (COMT) examination.

Admission Requirements

1. Candidates for the certificate must be enrolled and be in good standing in a graduate health professions program OR have proof of current professional licensure in a health profession.
2. Have permission of both the home and director of school.

Required Courses - Credit Hours: 9

- PTE 813 - Advanced Musculoskeletal - Hip
- PTE 814 - Advanced Musculoskeletal - Knee
- PTE 815 - Advanced Musculoskeletal - Ankle and Foot

Musculoskeletal - Spine - MRP Certificate

Program Description

The Graduate Certificate in Spine provides 9 hours of advanced musculoskeletal examination and treatment of the lumbar/sacroiliac, cervical, and thoracic spine. Emphasis is on differential diagnosis and manual treatment approaches. Individuals successfully completing this graduate certificate may be eligible to apply for permission to sit for the International Academy of Orthopedic Medicine (IAOM) Certification in Orthopedic Manual Therapy (COMT) examination.

Admission Criteria

- Candidates for the certificate must be enrolled and be in good standing in a graduate health professions program OR have proof of current professional licensure in a health profession
- Have permission of both the home and director of school.

Required Courses Credit Hours: 9

- PTE 810 - Advanced Musculoskeletal - Lumbar Spine and Sacroiliac Joint
- PTE 811 - Advanced Musculoskeletal - Cervical Spine
- PTE 812 - Advanced Musculoskeletal - Thoracic Spine

Musculoskeletal - Upper Extremity Certificate

Program Description

The Graduate Certificate in Upper Extremity provides 9 hours of advanced musculoskeletal examination and treatment of the Cervical Spine, Shoulder, and Elbow/Hand. Emphasis is on differential diagnosis and manual treatment approaches. Individuals successfully completing this graduate certificate may be eligible to apply for permission to sit for the International Academy of Orthopedic Medicine (IAOM) Certification in Orthopedic Manual Therapy (COMT) examination.

Admission Criteria

- Candidates for the certificate must be enrolled and be in good standing in a graduate health professions program OR have proof of current professional licensure in a health profession.
- Have permission of both the home and director of school.

Required Courses Credit Hours: 9

- PTE 811 - Advanced Musculoskeletal - Cervical Spine
- PTE 821 - Advanced Musculoskeletal - Shoulder
- PTE 831 - Advanced Musculoskeletal - Elbow and Hand

Nurse Educator Certificate

Program Description

The School of Nursing offers a Nurse Educator Certificate for nurses who have a Master's of Science in Nursing (MSN), or concurrent enrollment in a MSN program, and wish to obtain knowledge and skills used to teach in academic and non-academic settings. The Certificate consists of five courses, totaling a minimum of 12 credit hours and 144 practicum hours.

Application Process

1. Submit an application to Nursing CAS with all required documentation, including transcripts, and references. The application fee does not guarantee acceptance into the desired program of your choosing.
2. Submit evidence of graduation from a Master of Science in Nursing (MSN) program, or concurrent enrollment, from a nationally accredited nursing graduate program, that includes, at a minimum, graduate courses in nursing theory and research.
3. Submit proof of a cumulative GPA of 3.25 (on a 4.00 scale).

Required Courses Credit Hours: 12

- NUR 780 - Teaching/Learning for Health Care Educators
- NUR 781 - Nursing Education Practicum
- NUR 782 - Program Development and Evaluation in Nursing Education
- NUR 784 - Technology in Health Care Education

Retention & Persistence Requirements

Maintain a GPA of 3.00, with no more than one course with a grade of "C", and no course with a grade of "D" or lower. Receive a "pass" in all clinical evaluations.

Play Therapy Certificate

Program Description

The Graduate Certificate in Play Therapy provides a 9 hour graduate-level experience for students in counseling, counselors and other mental health professionals who are interested in play therapy practice. The program provides for the acquisition of specific knowledge and skills necessary for understanding and practicing play therapy, and draws on research-based principles and findings. The certificate is designed to provide the coursework to achieve the Registered Play Therapist and Registered-Play Therapist-Supervisor credentials from the Association for Play Therapy. Through an introduction and advanced study of play therapy in school and mental health contexts with individuals, groups, and families, students will benefit from experiential and instructional methods to become excellent practitioners in play therapy.

Admission Criteria

To be considered for the program, a student must have a 3.0 grade point average as well as apply and be admitted to or in possession of the Masters in Counseling or a closely related Graduate Degree. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Total Credit Hours: 9

- COU 708 - Play Therapy and Child Counseling Techniques
- COU 757 - Group Counseling Through Play
3 credits from the following special topics classes explicitly related to Play Therapy with advisor approval:
- COU 700 - Problems in Counseling
- COU 765 - Research and Program Evaluation Seminar in Counseling
- COU 782 - Elementary School Counseling Practicum
- COU 788 - Introduction to Supervision, Consultation and Leadership
- COU 789 - Advanced Level: Play Therapy Supervisor
- COU 790 - Counseling Workshop
- COU 795 - Topics in Counseling

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

Preparation for Graduate Study in Speech-Language Pathology Certificate

Program Description

This certificate is designed for students who already have a bachelor's degree in a field other than communication sciences and disorders, but who wish to be considered for entry into graduate programs in speech-language pathology. This certificate offers prerequisite coursework needed to apply to the MSU graduate program, though may be suitable for admission consideration to other speech-language pathology graduate programs across the nation. The entire certificate is offered online and can be completed in two semesters once prerequisite coursework is complete.

Admission Requirements

1. Bachelor's degree from an accredited university
2. A cumulative GPA (of all coursework) of 3.00 on a 4.00 scale
3. Completion of the following coursework or the equivalent with a grade of C or higher:
 - a. Normal Language Acquisition CSD 312
 - b. Cultural and Linguistic Diversity CSD 388
 - c. Hearing and Speech Science CSD 360

Required Courses - Credit Hours: 16

- CSD 602 - Acquired Disorders and Their Neuropathological Bases
- CSD 611 - Phonetics
- CSD 619 - Anatomy and Physiology of Speech
- CSD 627 - Developmental Disorders of Speech and Language
- CSD 634 - Hearing and the Impact on Speech and Language
- CSD 651 - Medical Terminology for Communication Sciences and Disorders
- CSD 686 - Introduction to Clinical Methods

Psychiatric-Mental Health Nurse Practitioner (PMHNP) Certificate

Program Description

The School of Nursing offers a Psychiatric-Mental Health Nurse Practitioner (PMHNP) Graduate Certificate for nurses who have a minimum of a Master of Science in Nursing degree from a nationally accredited nursing graduate program. This graduate certificate is for nurses who wish to obtain the knowledge and skills necessary to practice as a PMHNP. The PMHNP option prepares nurses at an advanced level to assess, diagnose, treat, educate, and manage acute and chronic patients' mental health needs across the lifespan as a health care provider. The PMHNP Graduate Certificate curriculum is delivered in a hybrid format. The PMHNP Graduate Certificate program is a series of courses totaling a minimum of 24 credit hours and minimum of 500 clinical hours. Completion of the certificate program will prepare students to take the national PMHNP certification exam.

Application Process

1. Submit an application to Nursing CAS with all required documentation, including transcripts, and references. The application fee does not guarantee acceptance into the desired program of your choosing.
2. Submit evidence of graduation with a minimum of a Master of Science in Nursing degree from a nationally accredited nursing graduate nursing program.
3. Submit proof of cumulative GPA of 3.25 (on a 4.00 scale).
4. Submit proof of completing a graduate course in advanced pharmacology that includes prescriptive practices, advanced pathophysiology, and advanced physical/health assessment.
5. Interview with a departmental selection committee.

Program Requirements (24 credit hours; minimum 500 clinical hours):

- NUR 731 - Psychiatric-Mental Health Practice I
- NUR 751 - Psychiatric-Mental Health Practice II
- NUR 771 - Psychiatric-Mental Health Practice III
- NUR 790 - Advanced Practice Practicum

Public Health Administration Certificate

Program Description

Designed for students who do not need or desire a graduate degree in public health, but for various reasons may need a level of education provided by a limited number of graduate courses.

Admission Requirements

Admission to the certificate program is separate from admission to the Master of Public Health program. However, students can acquire one certificate while in the process of completing the MPH. For those seeking admission only to the certificate, the following are required:

1. A bachelor's degree from a regionally accredited university.
2. Minimum 2.75 GPA.
3. A statement of purpose describing why the student wants to obtain a graduate certificate.
4. Two (2) letters of recommendation.
5. For international students, a current TOEFL or IELTS score.

Admission to the graduate certificate program does not guarantee admission to the Master of Public Health program. All coursework toward the certificate must have been taken after January 1, 2013. International students must meet all requirements stipulated by International Services. Courses without the PBH prefix may not be accepted for credit.

Accelerated Option

Eligible Missouri State University students may apply for acceptance into an accelerated option in public health & healthcare administration. This option offers students with an interest in public health the opportunity to complete the requirements for the public health graduate certificate in less time than would otherwise be possible. Once accepted for early admission to the certificate program, students will be able to take up to 12 credit hours at the 600- or 700-level that apply to both their undergraduate and graduate programs.

Requirements include completion of at least 60 undergraduate hours in a declared major with an overall GPA of 3.00 and a GPA of at least 3.00 within the declared major.

Before enrolling in a course that will apply both to the student's undergraduate program and the certificate, the undergraduate student must:

1. Be admitted into the accelerated certificate.
2. Receive prior approval from the student's undergraduate academic advisor, school director of the undergraduate program, the MPH program director, and the Dean of the Graduate College. This is done by using a mixed credit form.

If the student is accepted into the accelerated certificate the program, and all approvals must be completed prior to the end of the change of schedule period for the course(s). See the "Graduate College" section for further information.

Course Requirements - Credit Hours: 15

- MGT 701 - Health Services Organization
- PBH 775 - Principles and Skills of Public Health Administration
- PBH 754 - Seminar in Health Policy

Choose One of the Following:

- PBH 760 - Research Methods for the Health Professions
- PBH 720 - Epidemiology

Choose One of the Following:

- PBH 756 - Introduction to Public Health
- PLS 778 - Ethics and Leadership in the Public Sector
- MGT 600 - Administrative, Organizational and Operations Concepts for Managers

Public Health Core Certificate

Program Description

Designed for students who do not need or desire a graduate degree in public health, but for various reasons may need a level of education provided by a limited number of graduate courses.

Admission Requirements

Admission to the certificate program is separate from admission to the Master of Public Health program. However, students can acquire one certificate while in the process of completing the MPH. For those seeking admission only to the certificate, the following are required:

1. A bachelor's degree from a regionally accredited university.
2. Minimum 2.75 GPA.
3. A statement of purpose describing why the student wants to obtain a graduate certificate.
4. Two (2) letters of recommendation.
5. For international students, a current TOEFL or IELTS score.

Admission to the graduate certificate program does not guarantee admission to the Master of Public Health program. All coursework toward the certificate must have been taken after January 1, 2013. International students must meet all requirements stipulated by International Services. Courses without the PBH prefix may not be accepted for credit.

Accelerated Option

Eligible Missouri State University students may apply for acceptance into an accelerated option in public health & healthcare administration. This option offers students with an interest in public health the opportunity to complete the requirements for the public health graduate certificate in less time than would otherwise be possible. Once accepted for early admission to the

certificate program, students will be able to take up to 12 credit hours at the 600- or 700-level that apply to both their undergraduate and graduate programs.

Requirements include completion of at least 60 undergraduate hours in a declared major with an overall GPA of 3.00 and a GPA of at least 3.00 within the declared major.

Before enrolling in a course that will apply both to the student's undergraduate program and the certificate, the undergraduate student must:

1. Be admitted into the accelerated certificate.
2. Receive prior approval from the student's undergraduate academic advisor, director of school undergraduate program, the MPH program director, and the Dean of the Graduate College. This is done by using a mixed credit form.

If the student is accepted into the accelerated certificate the program, and all approvals must be completed prior to the end of the change of schedule period for the course(s). See the "Graduate College" section for further information.

Course Requirements - Credit Hours: 15

- PBH 720 - Epidemiology
- PBH 730 - Statistics for the Health Professions
- PBH 740 - Health Behavior
- PBH 745 - Environmental Health

Choose One of the Following:

- PBH 775 - Principles and Skills of Public Health Administration
- PBH 756 - Introduction to Public Health

Recreation and Parks Administration Certificate

Program Description

The Recreation and Parks Administration Certificate is a 12-hour program that includes four 3-credit courses. It is designed to provide preparation for administrative positions in professional recreation, parks and leisure agencies at the international, national, state and local level.

Admission Requirements

1. A Bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A resume and a written statement of goals and interest in the RPA Certificate. This written statement will be reviewed to assess the applicant's motivation and commitment to complete the graduate degree and as evidence of the writing skills necessary to succeed in the program.
3. All additional admission requirements established by Missouri State University and the Graduate College.

Certificate Course Requirements Credit Hours: 12

- SPR 623 - Administration of Sport and Recreation Agencies

- SPR 615 - Risk Management for Sport and Recreation Agencies
OR
- KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs

Choose 6 Hours From the Following:

- SPR 651 - Outdoor Leadership
- KIN 600 - Seminar in Kinesiology
- KIN 798 - Field Experience in Sports Management

Registered Nurse First Assist Certificate

NOT ACCEPTING APPLICATIONS AT THIS TIME

Program Description

The RNFA Certificate is a program for baccalaureate prepared registered nurses and advanced practice nurses to advance their education and skill set. Graduates are eligible to write the national certification examinations for Certified Registered Nurse First Assistant and earn the credential of CRNFA. Graduates are expected to contribute to the delivery of quality health care through their implementation of evidence based practice.

The program meets the criteria established by the Association of periOperating Room Nurses (AORN) for RNFA programs and is listed as an approved program by the Competency and Credentialing Institute (CCI), the certifying body for RNFAs

The RNFA certificate program consists of 9 credit hours including two on campus sessions and three distance courses including clinical practicum time. Students are expected to participate with a surgeon of their choice for the clinical learning section.

Admission Requirements

1. Minimum: Bachelor's degree in a health related field
2. Unencumbered Nursing licensure in State of practice
3. Personal liability insurance
4. ACLS and BLS
5. 2 letters of recommendation
6. 2 years' Operating Room (OR) or advanced practice nursing experience

Additional Requirement Prior to the Completion of the Program is Obtaining the CNOR Credential

Scope of Practice of the RNFA:

The RNFA functions as part of the perioperative nursing practice. Perioperative nursing is a specialized practice.

The RNFA further refinements include: (under the direction of a surgeon)

- Handling tissue
- Providing exposure
- Using instruments

- Suturing
- Providing hemostasis

Program Requirements

Required courses include 9 credits total: 2 seated and 7 distance

- ANE 620 - RNFA Introductory Principles
- ANE 621 - RNFA Perioperative Management I
- ANE 622 - RNFA Clinical Practicum
- ANE 623 - RNFA Perioperative Management II
- ANE 624 - RNFA Cumulative Review

Note:

AORN standards for RN first assistant education programs. In: *Perioperative Standards and Recommended Practices*. Denver, CO: AORN, Inc; 2012:749-751.

School Counseling Certificate

Program Description

The Graduate Certificate in School Counseling provides a 19-hour graduate-level experience for students in counseling, counselors, and other mental health professionals who are interested in the practice of school counseling. The program provides for acquisition of specific knowledge, skills, and supervised practice necessary for understanding and practicing school counseling, and draws on research-based principles and findings. The certificate is designed to provide coursework necessary to pursue elementary and secondary school counseling certification in the state of Missouri and potentially other states. The certificate alone does not satisfy the requirements for MO state certification. Possession of a Masters degree in counseling or closely related degree and state assessments (typically taken concurrently to the coursework in this certificate) are also needed. Additional prerequisite coursework and/or other qualifications may be necessary in individual instances.

Admission Criteria

To be considered for the program, a student must have a 3.0 grade point average as well as apply and be admitted to or in possession of the Masters in Counseling or a closely related Graduate Degree. Students who do not meet the normal admission requirements, but who show an indication of high promise, will be considered for probationary admission. The program faculty, or their designee, will define probationary conditions. Admission to the certificate program does not constitute admission to any other Missouri State University graduate program.

Required Courses - Credit Hours: 19

- COU 703 - Professional Orientation and Ethical Practice in School and Mental Health Counseling
- COU 704 - Introduction to School Counseling
- COU 708 - Play Therapy and Child Counseling Techniques
- COU 716 - Adolescent and Young Adult Counseling in School and Mental Health Settings
- COU 779 - School Counseling Practicum

- COU 781 - Secondary School Counseling Internship
- COU 783 - Elementary School Counseling Internship

Speech-Language Pathology Assistant Certificate

Program Description

Speech-Language Pathologist Assistants (SLPAs) work as support personnel to speech language pathologists. This certificate provides basic information related to speech sound disorders, language disorders, and other communication disorders seen in typical SLPA employment settings. Students will learn how to assist the supervising speech-language pathologist (SLP) in treating common communication disorders using prescribed protocols and procedures. The certificate prepares students to implement lesson plans, collect data, and document professionally. The SLPA certificate meets the minimum speech-language pathology technical coursework requirements required for licensure in Missouri.

Admission Requirements

1. Bachelor's degree from an accredited university
2. A cumulative GPA (of all coursework) of 3.00 on a 4.00 scale
3. The following courses or their equivalent with a grade of C or higher:
 - Normal Language Acquisition CSD 312 - 3 credits
 - Cultural and Linguistic Diversity CSD 388 - 3 credits

Required Courses Credit Hours: 15

- CSD 602 - Acquired Disorders and Their Neuropathological Bases
- CSD 611 - Phonetics
- CSD 619 - Anatomy and Physiology of Speech
- CSD 627 - Developmental Disorders of Speech and Language
- CSD 633 - Speech-Language Pathology Assistant Internship
- CSD 634 - Hearing and the Impact on Speech and Language
- CSD 686 - Introduction to Clinical Methods

Sport and Human Performance Certificate

Program Description

The Sport and Human Performance Certificate is a 12-hour program that includes four 3-credit courses (3 required and 1 elective). It is designed to provide preparation and additional credentials for career placement in various related fields such as, but not limited to: exercise practitioner, research scientist, teaching in educational or clinical settings (i.e. biomechanics, exercise physiology, health, strength and conditioning, etc.)

Admission Requirements

1. A Bachelor's degree in kinesiology, exercise science, health, physical education, or related field from an accredited university.
2. Letter of intent which must include: (a) career goals, (b) research experience, (c) research interests.
3. Professional curriculum vitae or resume.
4. All additional admission requirements established by Missouri State University and the Graduate College.

Certificate Course Requirements Credit Hours: 12

- KIN 755 - Fitness as Preventive Medicine
- KIN 760 - Applied Biomechanics of Human Movement
- KIN 762 - Applied Exercise Physiology

Choose Three Hours From the Following:

- KIN 650 - Organization and Administration for Kinesiology Professionals
- KIN 667 - Physical Activities for the Aging Adult
- KIN 668 - Adapted Physical Education
- KIN 669 - Health Appraisal and Exercise Testing Techniques
- KIN 733 - Current Problems in Sports Administration
- KIN 735 - Administration of School Physical Education and Athletic Programs
- KIN 737 - Curriculum Designs in Physical Education
- KIN 759 - Contemporary Health Problems
- KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs
- KIN 781 - Contemporary Issues in Physical Education
- KIN 797 - Graduate Seminar
- HLH 682 - Motivational Interviewing for Health Professionals

Certificate Requirements

Students must have an overall GPA of 3.00 for completion of the program.

Sport Pedagogy Certificate

Program Description

The Sport Pedagogy Certificate is a 12-hour program that includes four 3-credit courses (3 required and 1 elective). It is designed to provide additional experiences to teachers and coaches that enhances their ability to teach, coach and/or administer physical education, physical activity, and athletic programs.

Admission Requirements

1. A Bachelor's degree in kinesiology, exercise science, health, physical education, or related field from an accredited university.
2. Letter of intent which must include: (a) career goals, (b) research experience, (c) research interests.
3. Professional curriculum vitae or resume.

4. All additional admission requirements established by Missouri State University and the Graduate College.

Certificate Course Requirements Credit Hours: 12

- KIN 735 - Administration of School Physical Education and Athletic Programs
- KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs
- KIN 781 - Contemporary Issues in Physical Education

Choose Three Hours From the Following:

- KIN 650 - Organization and Administration for Kinesiology Professionals
- KIN 667 - Physical Activities for the Aging Adult
- KIN 668 - Adapted Physical Education
- KIN 669 - Health Appraisal and Exercise Testing Techniques
- KIN 733 - Current Problems in Sports Administration
- KIN 737 - Curriculum Designs in Physical Education
- KIN 739 - Principles of Sports Management
- KIN 755 - Fitness as Preventive Medicine
- KIN 759 - Contemporary Health Problems
- KIN 760 - Applied Biomechanics of Human Movement
- KIN 762 - Applied Exercise Physiology
- KIN 797 - Graduate Seminar
- HLH 682 - Motivational Interviewing for Health Professionals

Certificate Requirements

Students must have an overall GPA of 3.00 for completion of the program.

Sports Management Certificate

Program Description

The Sports Management Certificate Program is an 12 hours program, that includes three 3-credit hour courses and one three-hour field experience course. It is designed to provide for preparation for management positions in professional, collegiate, and international sports, as well as, campus and community wellness/sports programs.

Admission Requirements

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. Recommendation by the Graduate Interdisciplinary Program Director.

Required Courses - Credit Hours: 12

- KIN 739 - Principles of Sports Management
 - KIN 780 - Legal Aspects in Sports, Physical Education, and Wellness Programs
- OR**
- SPR 615 - Risk Management for Sport and Recreation Agencies
 - KIN 733 - Current Problems in Sports Administration
 - KIN 798 - Field Experience in Sports Management The field experience is the culminating activity for all students in the certificate program. It should be planned (in consultation with the sports management advisor) in advance of the semester in which the student desires to register for the experience. Before the experience can begin, the student must complete the application process and the 9 credit hours required in the certificate program or be granted permission by the program director:

Requirements for Completion of Certificate

1. Completion of required courses.
2. Completion of the field experience.
3. Maintain a GPA of 3.00
4. Successful completion of a research or capstone experience will serve as the student's comprehensive examination.

Statistics and Research Design Certificate

Program Description

The Statistics and Research Design certificate is targeted to students who are already in or entering a research oriented field to supplement their knowledge in statistical techniques and applied research areas. Prospective students may enroll in the fall, spring, or summer semester. Once admitted, they must complete 12 credit hours selected from the course list in order to receive the Certificate. Students may attend full-time or part-time.

Admission Criteria

1. The student must hold a bachelor's degree from a regionally accredited program.
2. The student must submit the Graduate Application.

Required Courses - Credit Hours: 6

- PSY 745 - Statistics and Research Design
- PSY 752 - Research Methods

Additional Electives - Credit Hours: 6

- PSY 627 - Advanced Psychological Statistical Methods
- PSY 751 - Seminar in Methods of Research
- PSY 747 - Single Subject Research Design in Applied Behavior Analysis
- PSY 629 - Psychological Tests and Measurements

The Following Courses May Be Allowed With Approval of Coordinator Based on Topic

- 3 credits of PSY 701 - Symposium in Psychology
- 3 credits of PSY 796 - Practicum
- 3 credits of PSY 797 - Directed Research
- 3 credits of PSY 798 - Internship

TeleMental Health in Counseling Certificate

NOTE - APPLICATIONS ARE NOT BEING ACCEPTED AT THIS TIME

Program Description

The TeleMental Health in Counseling- Graduate Certificate, offered by the School of Mental Health and Behavioral Sciences at Missouri State University, is a 9-credit hour program that provides training in telemental health in counseling. The certificate program allows students to expand their knowledge of ethics, research, and practice in counseling via telehealth modalities in order to provide safe and effective counseling services.

This graduate certificate will benefit any licensed counselor, counselor in training, or practicing mental health professional who will be using telemental health modalities to provide services to clients. The certificate offers a short, focused program of study in a particular subject not formally offered and provides continuing education credit opportunities for counselors. In addition, the credit hours earned may be applied towards the master's level counseling degree for students enrolled in the Master's in Counseling program.

Admission Criteria

To be considered for the program, a student must have a 3.0 grade point average as well as apply and be admitted to or in possession of the Master's in counseling or a closely related Graduate Degree. Admission to the certificate does not constitute admission to any other Missouri State Graduate Program.

Required Courses- Credit Hours: 9 Total

- COU 706 - Introduction to TeleMental Health in Counseling
- COU 765 - Research and Program Evaluation Seminar in Counseling *
- **OR**
- 2 to 6 credits of COU 799 - Thesis *
- 0 to 4 credits of
- COU 777 - Counseling Practicum **
- **OR**
- COU 778 - Mental Health Practicum **
- **OR**
- COU 781 - Secondary School Counseling Internship **
- **OR**
- COU 783 - Elementary School Counseling Internship **
- **OR**

- COU 785 - Mental Health Counseling Internship **

Note:

* Coursework must be focused on telemental health in counseling

**Clinical experience in the courses must be focused on telemental health in counseling

Completion Requirements

Courses must be completed with a 3.00 GPA for successful completion of certificate.

William H. Darr College of Agriculture

Academic Units

Schools

- School of Agricultural Science and Conservation
- School of Hospitality and Agricultural Leadership

Facilities

- Facilities (Mountain Grove Campus, Darr Agricultural Center, Fruit Experiment Station, Shealy Farm, Journagan Ranch, Kindrick Family Farm, The Woodlands, Baker's Acres)

Contact

Dean

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Office

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417-836-5638

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Website

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Master's Programs

Agriculture, MS

Program Description

Advanced interdisciplinary degree combining sub-specialty areas in agriculture including agricultural economic/business, agricultural education, agricultural communication, animal science, natural resources, and horticulture.

Admission Requirements

1. Meet all Missouri State University Graduate College Admission Requirements.
2. A bachelor's degree in agriculturally relevant discipline from a college or university accredited by agencies recognized by Missouri State University;
3. AND a cumulative grade point average of at least 2.75 on a 4.00 scale, OR at least a 2.75 grade point average on a 4.00 scale for the last 60 hours of academic course work; OR have a combined score of 290 (875 under the old scoring system before August 1, 2011) on the verbal and quantitative sections of the Graduate Record Examination; OR you may be admitted on a provisional basis and required to complete prerequisite courses before advancing through the agricultural sciences graduate program.
4. Receive a positive evaluation from the Director of the Agriculture Graduate Committee that is dependent upon having an accepting advisor.
5. Complete the Statement of Interest form indicating specialty areas.

International Students: Submit your score for the Test of English as a Foreign Language (TOEFL) of 79 on the internet-based test.

Follow these steps to apply to the Master of Science in Agricultural Sciences program:

1. Complete and submit a Graduate Application.
2. Pay the application fee
3. Submit one copy of your official transcripts
4. Complete the Statement of Interest form indicating specialty areas.

Admission Requirements for the Accelerated Master's Option

To qualify for admission into the accelerated master's program, you must meet these criteria:

1. Hold junior or senior standing with at least 60 credit hours
2. Have a cumulative GPA of at least 3.25

3. Complete a minimum of 25 credit hours of undergraduate hours relevant to the emphasis area (of animal sciences; agricultural business, education, or communications; or natural resources).
4. Be accepted by an advisor who is a faculty member in the College of Agriculture who is a Missouri State Graduate Faculty Member.
5. Receive approval by the coordinator of the Agricultural Sciences Graduate Program.

Accelerated Master's Degree Option

Once admitted into the accelerated master's program, one may take up to 12 credit hours in courses numbered 600 and above to receive both undergraduate and graduate credit. A mixed credit form listing the courses to satisfy both undergraduate and graduate requirements must be completed during the normal registration period for the semester. Please note that mixed credit form must be completed prior to the first week of classes.

Degree Requirements Credit Hours: 32

Required Courses - Credit Hours: 9 From the Courses Below

- AGR 790 - Introduction to Agricultural Research Methods
OR
- PSY 710 - Psychology of Education *
- AGR 797 - Seminar
- 2 credits of AGP 730 - Advanced Topics in Plant Science
OR
- EDT 764 - Instructional Design *
- QBA 775 - Quantitative Methods in Business Decision Making
OR
- BIO 650 - Statistical Methods for Biologists
OR
- COM 712 - Quantitative Research Methods in Communication

Note:

*Required for Agricultural Education Emphasis

Research Requirement - Credit Hours: 12

Thesis Option:

The Thesis option requires the completion of a research thesis supervised by the student's advisory committee. The thesis shall be approved by the advisory committee and by the Graduate College before the degree is granted. A maximum of six hours of thesis credit can be applied toward the minimum hours required for the master's degree. An oral defense of the thesis is required.

- 6 credits of AGR 798 - Research
- 6 credits of AGR 799 - Thesis

Non-Thesis Option:

The Non-Thesis option requires the completion of a minimum of one semester course which shall require an extensive research paper or creative work. The student's advisory committee must approve the final research paper and complete a Seminar Report Form that is submitted to the academic department chosen as the major area of concentration and subsequently to the Graduate College for the approval of the Dean.

- 6 credits of AGR 798 - Research
- Additional Course work **Credit Hours:** 6

Graduate Internship Option:

The Graduate Internship option required the completion of 6 hours of Graduate Internship and other requirements as outlined by the Graduate Advisor for the Internship option.

- 6 credits of AGR 796 - Science Internship
- Additional Course work **Credit Hours:** 6

Specialty Area Courses and Additional Elective Hours - Credit Hours: 11

Specialty Area: Natural Resources

- AGN 605 - Soil Fertility and Plant Nutrition
- AGN 635 - Soil Conservation and Water Management
- AGN 643 - Silviculture
- AGN 655 - Soil Genesis, Morphology and Classification
- AGN 665 - Environmental Soil Science
- AGN 699 - Special Topics in Natural Resources
- AGN 725 - Advanced Soils Interpretations
- AGP 653 - Turf Science
- AGP 660 - Site Specific Techniques in Agriculture and Natural Resources
- AGP 665 - Grain Crops for Food, Feed and Energy
- AGP 670 - Forage Crops for Animals and the Environment
- AGP 675 - Plant Breeding and Genetics
- AGP 676 - Plant Breeding and Genetics Lab
- AGP 680 - Plant Biotechnology
- AGP 683 - Plant Pathology
- AGP 685 - Weed Ecology and Management
- AGP 699 - Special Topics in Plant Science
- AGP 730 - Advanced Topics in Plant Science

Specialty Area: Agricultural Economics/Business

- AGB 614 - International Agricultural Trade
- AGB 624 - Agricultural Prices
- AGB 634 - Production Economics
- AGB 684 - Farm Business Management

Specialty Area: Agricultural Education

- LTC 710 - Content Area Literacy

Plus 8 Hours From the Following:

- AGE 658 - Teaching of Agriculture
- AGE 668 - Course and Program Building in Agricultural Education
- AGE 678 - Methods of Teaching Agricultural Management
- AGE 688 - Methods of Teaching Agricultural Laboratory Management
- AGE 718 - Topics in Agricultural Education
- AGE 728 - Induction Year Teaching I
- AGE 738 - Induction Year Teaching II
- EAD 785 - Legal and Ethical Contexts of Schooling
- LTC 624 - Analysis and Correction of Difficulties in Adolescent Literacy
- LTC 640 - Analysis and Correction of Difficulties in Literacy

Specialty Area: Animal Science

- AGS 611 - Animal Nutrition and Metabolism
- AGS 661 - Equine Nutrition and Physiology
- AGS 712 - Special Topics in Animal Science
- AGS 716 - Mammalian Reproductive Physiology
- AGS 752 - Advanced Cow-Calf Production
- AGS 753 - Advanced Stocker and Feedlot Cattle Production

Additional Recommended Elective Courses

- ECO 600 - Fundamentals of Economics
- ECO 609 - Applied Econometrics
- ECO 615 - Public Sector Economics
- ECO 640 - Environmental, Resource, and Energy Economics
- ECO 665 - International Economics
- QBA 775 - Quantitative Methods in Business Decision Making
- PLS 756 - Budgeting and Financial Management for State and Local Government
- COM 714 - Qualitative Research Methods in Communication

Comprehensive Examination

A written qualifying examination will be administered after most of the course work has been completed. This examination must be passed by the candidate before a degree will be given.

Plant Science, MS

Program Description

This program is designed to prepare students to work in a wide range of jobs related to the production and economic uses of plants. Employment opportunities include the areas of crop, fruit and vegetable production, biotechnology, nursery and seed production, landscape management, wine production, environmental preservation, agribusiness, teaching, research, and extension education. Students may also continue their education in a doctoral program.

The Master of Science in Plant Science is offered as an interdepartmental program from the School of Agricultural Science and Conservation, Department of Biology, and Department of Chemistry. Together with the plant science program coordinator, the student selects an advisor from one of the three academic units. The student and advisor design an individual program of study, selecting courses which will help the student to achieve his/her career goals.

During the first semester, the student declares an area of specialization and begins to pursue a research problem (project) with close supervision of a graduate faculty advisory committee. Research areas include fruit production, soils and plant nutrition, ornamental plants and landscaping, plant physiology, enology and viticulture, crop management systems, plant genetics, and economic botany.

Most course work is usually completed by the end of the second or third semester, and the research and thesis completed after four or five semesters. A comprehensive exam is taken during the second year.

Graduate Assistantships

Evaluation of applications for assistantships begins on March 1 (fall assistantships) and October 1 (spring assistantships), and will continue until positions are filled. Applicants must first be accepted into the program, and files must be complete to be considered.

Retention Requirements

To remain in the program, students must maintain a GPA of 3.00 and make satisfactory progress on the thesis research.

Admission Requirements

Students admitted to the plant science program in full standing must meet the following requirements.

1. The student must meet all Graduate College Admission requirements. Students who do not meet the grade point standards outlined, but are admitted on the basis of their GRE scores, will be required to complete a minimum of 9 hours of specified graduate courses with a GPA of at least 3.00 before being approved for an Advisory-approved Program of Study in the program.
2. The student must submit Graduate Record Examination (GRE) scores from the General Test portion.
3. International applicants are also required to submit a score for the Test of English as a Foreign Language (TOEFL) of not less than 79 on the internet-based test.
4. The student must possess an undergraduate degree with a background in an appropriate natural or applied science including one semester of genetics and one semester of organic chemistry or equivalents thereof. Applicants lacking the background courses may be admitted, but will be required to complete any of these deficiencies with appropriate course work.
5. The student must receive a positive evaluation from the Graduate Coordinator of the Plant Science program before being recommended to the Graduate College for admittance into the program.

Accelerated Master's Degree Option

Missouri State University majors in Agriculture, Biology, and Chemistry have the option to apply for preliminary acceptance into the MS in Plant Science program if they meet the requirements of the accelerated master's option. This option is tailored to those undergraduates who have acquired considerable plant science-related research experience in a laboratory through the School of Agricultural Science and Conservation, Department of Biology, or Department of Chemistry at Missouri State University. Students who are accepted to the accelerated program will be able to count a maximum of 12 credit hours of 600-or higher level course towards both their undergraduate and graduate degrees. The courses must be in the area of economic botany, plant physiology, plant genetics, crop management systems, plant nutrition, soils, chemistry, ecology, fruit production, viticulture, enology, or ornamental plants and landscaping. Courses to be counted toward both degrees must be identified jointly in agreement with the undergraduate advisor, the student's research mentor, and the Plant Science Program Director. This option will enable Agriculture, Biology or Chemistry majors to potentially meet the requirements for the MS in Plant Science degree within two semesters following the completion of the undergraduate degree. Contact the Plant Science Program Director for details and additional information.

To be allowed to enroll in a course which is counted toward both the undergraduate and graduate degree, the student must be accepted as an advisee by a graduate faculty member and must be admitted into the accelerated program and have the permission of his/her undergraduate advisor, the Plant Science Program Director and the Dean of the Graduate College. These signature approvals are shown on the Mixed Credit Form which is required prior to the end of the Change of Schedule Period for the selected semester.

Admission Requirements for the Accelerated Master's Option

1. Junior or senior standing and a GPA of 3.25 or higher.
2. A minimum of 25 credit hours of undergraduate hours relevant to plant biology (as determined by the undergraduate advisor, the student's research mentor, and the Plant Science Program Director) with a GPA of 3.50 or higher.
3. Laboratory research experience relevant to plant science under the direction of a faculty member in Agriculture, Biology or Chemistry at Missouri State University.
4. Acceptance of the student as an advisee by a member of the MS in Plant Science Graduate Faculty.
5. Approval by the MS in Plant Science Graduate Advisory Committee.

Degree requirements (32 hours)

Graduate Advisory Committee

Initially, each admitted student will be advised by the graduate coordinator of the Plant Science program. As soon as possible, the student, in conjunction with the graduate coordinator, will select a graduate faculty member from one of the four participating departments to chair a graduate advisory committee. Together with the student, the chairperson of the graduate advisory committee will select a minimum of two additional graduate faculty members from one or more of the participating departments. This committee will supervise the remainder of the candidate's program.

Program of Study

If not a part of the student's previous academic experience, courses in plant physiology (BIO 644) and biometry (BIO 650) or applied statistics (MTH 645) must be completed within the first year of the program. The remainder of the candidate's program will be structured by the advisory committee in consultation with the student. Academic background, professional experience, and career objectives will be considered in establishing the individual's program.

Course Requirements

The student is required to successfully complete a minimum of 32 hours. Coursework taken from the Departments of Agriculture, Biology, Chemistry, Fruit Science, or Mathematics must total at least 23 hours with a minimum of 16 hours from courses numbered 700 through 799 inclusive.

Colloquium

Two hours of credit must be earned in AGP 700, Plant Science Colloquium.

Electives

Upon approval of the advisory committee, graduate courses from related fields may be selected to a maximum of 9 hours within the 32-hour degree requirement.

Research Requirement

Thesis Option: The Thesis option requires the completion of a research thesis supervised by the student's advisory committee. The thesis shall be approved by the advisory committee and by the Graduate College before the degree is granted. A maximum of six hours of thesis credit can be applied toward the minimum hours required for the master's degree. An oral defense of the thesis is required.

Non-Thesis Option: The Non-Thesis option requires the completion of a minimum of one semester course which shall require an extensive research paper or creative work. The student's advisory committee must approve the final research paper and complete a Seminar Report Form that is submitted to the academic department chosen as the major area of concentration and subsequently to the Graduate College for the approval of the Dean.

Qualifying Examination

A written qualifying examination will be administered after most of the coursework has been completed. This examination must be passed by the candidate before a degree will be given.

Secondary Education: Agriculture Area of Emphasis, MSED

See program requirements for the MSED, Secondary Education.

Agricultural Requirements

- 3 credits of AGE 718 - Topics in Agricultural Education
- Additional course work in Agriculture - **Credit Hours:** 12

Total Hours Required: 15

Certificates

Agricultural Business and Economics Certificate

Program Description

This certificate is designed for students who aspire to have careers in government, business, or NGOs related to agricultural business and economics. This certificate is administered by the School of Hospitality and Agricultural Leadership.

Program Requirements - Credit Hours: 12

Complete 6 hours from at least 2 of the following agribusiness courses:

- AGB 614 - International Agricultural Trade
- AGB 624 - Agricultural Prices
- AGB 684 - Farm Business Management
- AGB 694 - Agricultural Entrepreneurship
- AGR 796 - Science Internship

Complete 6 hours (2 courses) from the following economics courses:

- ECO 600 - Fundamentals of Economics
- ECO 609 - Applied Econometrics
- ECO 640 - Environmental, Resource, and Energy Economics

Completion Requirements

Students must attain a grade of B or better in all courses used to fulfill the certificate requirements.

Hospitality Administration Certificate

Program Description

The Hospitality Administration Graduate Certificate program is a 12-hour program that includes one three-hour field experience course in addition to nine hours of online study. It is designed to prepare graduates for mid to upper-level management positions in the hospitality industry.

Admission Criteria

Admission to the certificate program.

Required Courses

- HSP 710 - Risk Management and Legal Compliance in the Hospitality Industry
- HSP 720 - Hospitality Change Management and Leadership

- HSP 730 - Seminar in Hospitality and Tourism
- HSP 798 - Field Experience in Hospitality Administration

Total (Minimum) Hours: 12

GPA requirements

Successful completion of the 12 hours of required courses with a combined grade point average of at least 3.00.

Ranch Management Certificate

Program Description

A graduate certificate in Ranch Management provides students with in-depth knowledge into managing livestock operations including animal management, feed production, and finances. Students must complete an internship as a manager-in-training at Journagan Ranch or other suitable livestock operation where they complete a special project evaluating and alternative practice to add value to the operation. Completion of a graduate certificate in Ranch Management prepares students for advanced placement in livestock management positions.

Admission Criteria

Students must be admitted into the certificate program.

Program Requirements - Credit Hours: 18

Required Courses:

- 3 credits of AGR 796 - Science Internship **
- AGP 670 - Forage Crops for Animals and the Environment *
- AGB 684 - Farm Business Management *
- AGS 611 - Animal Nutrition and Metabolism *
- **OR**
- AGS 716 - Mammalian Reproductive Physiology

Select 2 Courses From Below:

- AGS 752 - Advanced Cow-Calf Production
- AGS 753 - Advanced Stocker and Feedlot Cattle Production
- AGS 712 - Special Topics in Animal Science
- AGS 712 - Special Topics in Animal Science **Credit Hours: 1-3**
AGS 712 topics must be Advanced Sheep and Goat Production or Advanced Dairy Cattle Production.

Note:

* These courses are dual listed and may not be taken for graduate credit if the related undergraduate course (AGP 370, AGB 584, AGS 511) was taken. If this is the case, then other graduate level Plant Science, Agricultural Business, and Animal Science courses must be substituted.

**Students must complete an internship as a manager-in-training at Journagan Ranch or other suitable livestock operation where they complete a special project evaluating current and alternative practices to add value to the operation. Completion of a graduate certificate in Ranch Management prepares students for advanced placement in livestock management positions.

Completion Requirements

Students must have an overall grade point average of 3.00 for completion of certificate program.

Graduate College

Contact

Associate Provost and Dean

Julie J. Masterson, PhD

Interim Associate Dean

Carrisa Hoelscher, PhD

Office

Carrington Hall, Room 306

Phone

417-836-5335

Graduate Admissions

417-836-5331

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GraduateCollege@MissouriState.edu

Website

Graduate.MissouriState.edu

Master's Programs

Interdisciplinary Studies, MS

Program Description

Missouri State University offers an innovative interdisciplinary program at the Masters level for students who find that traditional master's degrees or formally-designed options do not meet their unique, creative, and professional needs or for those seeking growth and advancement within their vocations. The MSIS program allows students, in consultation with graduate faculty in the selected areas, to combine the curricula of at least two programs, to produce a well-designed and intensive program of study. MSIS students are expected to demonstrate research and writing proficiency appropriate to their career path and program emphasis.

Admission Requirements

Admission to the program is based on the following:

1. Bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university;
2. A minimum overall GPA of 3.00 on a 4.00 scale, or 3.00 on a 4.00 scale for the last 60 hours of course work, or 3.00 on 9 hours of graduate hours;
3. Admission to at least one graduate certificate program.

Accelerated Master's Option Admission Requirements

This is an option for MSU undergraduate students who are juniors and have accumulated at least 60 credit hours with an overall GPA of 3.20 or higher. If admitted, up to 12 hours of 600-level or 700-level courses by count for Mixed Credit. Please reach out to the Graduate Interdisciplinary Studies office to discuss the application process.

Before enrolling in a course that will apply to both the undergraduate program and the master's program an undergraduate student must:

1. Be admitted into the accelerated program;
2. Receive prior approval from the MSIS advisor, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a mixed credit form.

Degree Requirements Credit Hours: 33 Minimum

Core Courses

- Research methods - Variety of courses available **Credit Hours: 3**
- Research/Capstone experience - Thesis, Non-Thesis Project, or Internship **Credit Hours: 3-6**
- Interdisciplinary course work - Coursework from 2 or more Graduate Certificates **Credit Hours: 24-27**

Additional Degree Requirements

1. Successful completion of the research or capstone experience will serve as the student's comprehensive examination.
2. All other university and Graduate College requirements must be met for completion of a degree program.

Professional Studies, MPS

Program Description

The Master of Professional Studies (MPS) is a cross-disciplinary program which promotes the enhancement of practical skills in a variety of disciplines. The program is designed to meet the needs of individuals who are seeking professional growth and advancement within their vocations. The 33-hour program allows participants to expand their knowledge base and refine skills necessary to keep up with the ever-changing marketplace.

Admission Requirements

The Master of Professional Studies (MPS) is designed for individuals who are highly motivated to pursue an advanced degree. Admission is competitive and meeting the minimum standards for admission will not guarantee acceptance into the program.

Admission to the program requires all of the following:

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. A GPA of 3.00 on a 4.00 scale for the last 60 hours of undergraduate course work OR a GPA of 2.75 to 2.99 on a 4.00 scale for the last 60 hours of undergraduate course work and a minimum score of 290 on the GRE or 450 on the GMAT OR completion of 9 credit hours of graduate course work with a minimum GPA of 3.00. These courses may be taken as a post baccalaureate or nondegree-seeking graduate student and must be approved by the MPS Program Director.
3. A Resume
4. A written statement of goals and interest in the MPS degree. This written statement will be reviewed to assess the applicant's motivation and commitment to complete the graduate degree and as evidence of the writing skills necessary to succeed in the program.
5. All additional University and Graduate College requirements for admission to a degree program.

Accelerated Master's Option Admission Requirements

Exceptional Missouri State University undergraduate students may apply for preliminary acceptance into the Master of Professional Studies program in their junior year after admission requirements for the accelerated program have been satisfied. Candidates for this option must have junior standing and an overall GPA of 3.20 or higher. If admitted, up to 12 hours of 600-level or 700-level courses may be designated as "mixed credit" and count toward both the undergraduate and graduate degree programs. This option gives these undergraduate students the opportunity to complete their bachelor's and master's degrees in 10 semesters and a summer.

Before enrolling in a course that will apply to both the undergraduate program and the master's program an undergraduate student must:

1. Be admitted into the accelerated program;
2. Receive prior approval from the MSIS advisor, department head of the undergraduate program, and the Dean of the Graduate College. This is done by using a mixed credit form.

Acceptance into the program and all approvals must be completed prior to the end of the Change of Schedule Period for the course(s). See the Graduate College for further information.

Admission Requirement for the Accelerated Option:

1. Junior standing and an overall GPA of 3.20 or better;
2. A supportive recommendation letter from the applicant's undergraduate advisor, program director, or department head;
3. A written statement of purpose explaining why the student wants to pursue the accelerated Master's program along with the prospective plans following graduation.

Degree Requirements Credit Hours: 33 Minimum

For core courses, work with the MPS advisor to select courses from seven of the eight areas listed below. Your advisor will help navigate the available options to generate a program of study to meet your professional goals. No more than 15 credit hours (generally 5 courses) from the College of Business can be counted toward the MPS degree.

Core Courses Credit Hours: 21

Select 7 of the following 8 areas of study.

- Finance/Budgeting/Economics
- Law/Ethics/Regulatory Functions
- Talent Identification/Leadership/Management
- Research Design/Project Development/Data Analysis
- Communication/Relationships/Environment
- Technology/Networking/Security
- Structure/Diversity
- Professional Writing

Focus Area: Graduate Certificate Credit Hours: 12

The completion of a graduate certificate allows the student to focus on the area that aligns with his or her professional interests. Prospective students are encouraged to visit with the Director of the MPS about the choice for a focus area. Although any graduate certificate is an eligible avenue to meet the focus area requirement, students must be formally admitted to the certificate program in order to use it toward the MPS degree. The following graduate certificates are currently aligned with the MPS, and students who choose one of these for a focus area are simultaneously admitted to both the degree and the certificate:

- Applied Communication
- Environmental Monitoring and Sampling
- Hospitality Administration
- Individualized Studies
- Project Management
- Screenwriting for Television and Film
- Sport Management

For information regarding other potential graduate certificates and associated admission requirements, visit our certificate programs page.

MPS students are expected to demonstrate competency in methods of inquiry, problem solving, and writing for their career path and program emphasis. One of the courses taken for the graduate certificate also will serve as the Capstone experience. This may

involve an internship, practicum, or research project representative of their focus area. Successful completion of the capstone experience will serve as the student's comprehensive examination.

Secondary Education, MEd

Entrance requirements

A student must hold certification to teach secondary education and meet all graduate school requirements. Students in education-related occupations or professions other than secondary school teaching which require licensing or certification by state or national boards may be recommended for admission. The student must have earned a 2.75 GPA or higher on the last 60 hour of undergraduate credit or transferred graduate credit. The student must complete any required prerequisite courses. Such courses do not count toward completion of the degree requirements.

Degree requirements (33 hours total) - at least half of the coursework must be 700-level or above

Required Core Courses - Credit Hours: 6

- SFR 750 - Sociocultural Foundations of Education
- SFR 780 - Educational Research Methodology

Professional Core Courses- 6 Credits

Course work designed for improvement of classroom instruction. Courses should be selected from two of the six areas below*:

- EDT 665 - Selection and Utilization of Educational Technology
- MID 725 - Advanced Theory and Practice in the Teaching of Early Adolescents
- PSY 705 - Psychology of Adolescence
- LTC 710 - Content Area Literacy
- SEC 701 - Secondary School Curriculum
- SPE 613 - Physical and Health Needs of Students with Disabilities

Note:

* Other electives specifically related to classroom teaching may be identified and substituted for letters a through f above with program advisor approval.

Required Unit Assessment and Research Assessment

The student must complete two (2) assessments.

Research and Specialized Core Experience - 6 credits

Includes research (see below) and other course work to total 6 hours. Of these 6 hours, a minimum of 2 hours must be in one of the following two research options. Additional course work is needed if less than 6 hours of research is chosen.

- a. *Option I:* Completion of a thesis. Thesis credit may not exceed 6 hours of the total program. Students writing a thesis may enroll in the appropriate course for their emphasis area. (Refer to Emphasis Area for thesis course). Students must obtain their program director and/or advisor approval for their thesis course(s). Students must complete the online Graduate College thesis format training.
- b. *Option II:* Completion of an extensive research project or major creative work. Students must obtain their program director and/or advisor approval for their research course(s) component.

Emphasis Area - 15 credits

This emphasis must be an area in which the State of Missouri currently offers a certificate for grades K-12 or 9-12. At least 3 hours of 700-level credit must be earned from Missouri State University in the emphasis area. Refer to your emphasis area departmental section of this catalog for specific information.

Course work in some emphasis areas is limited and may not be offered every semester. Students should check with the advisor as to availability of specific course offerings.

Comprehensive Examination

A comprehensive examination must be passed by the candidate before a degree will be granted. Check with advisor for specific requirements.

Graduation requirements

In addition to requirements established by the Graduate College, students must have both a cumulative GPA of 3.00 on all work attempted in education and in all work attempted in the emphasis area.

Advisement

The advisor works with the student to determine:

- The program of study which will be developed according to the needs and interest expressed by the advisee.
- The advisee's formal training at the undergraduate level; the teaching assignment of the advisee.
- Professional assignments in which the advisee hopes to be involved in the future.

Emphasis areas

Students may earn degrees in the following emphasis areas:

- Agriculture (Advisor: James Hutter)
- Biology (Advisor: Georgiana Saunders)
- Chemistry (Advisor: Gautam Bhattacharyya)
- Earth Science (Advisor: Melanie Carden-Jessen)
- English* (Advisor: Cathie English)
- Family and Consumer Sciences* (Advisor: Debra Price)
- Geography (Advisor: Melanie Carden-Jessen)
- History* (Advisor: Travis Seay)
- Mathematics* (Advisor: Gay Ragan)
- Natural Science (Advisor: Georgiana Saunders)

- Physical Education (Advisor: Sarah McCallister)-ADMISSION CURRENTLY SUSPENDED
- Physics (Advisor: Robert Mayanovic)
- Social Sciences (Advisor: Travis Seay)

*Accelerated master's option included

Certificates

Individualized Studies Certificate

Program Description

The individualized graduate certificate, offered by the Graduate College at Missouri State University, is a 12 credit hour program and provides a graduate-level experience for those who find that formally designed options from existing programs do not meet their unique, creative and professional needs, or those seeking growth and advancement within their vocations. The certificate program allows students to expand their knowledge and experiences consistent with their professional goals and objectives in one or more areas.

This graduate certificate will benefit anyone who needs to acquire focused skills, launch a new career unrelated to his/her undergraduate degree and/or retool and update knowledge. The certificate offers a short, focused program of study giving students advanced skills in a particular subject not formally offered and provides continuing education credit opportunities in many careers. In addition, the credit hours earned may apply toward an advanced degree.

Admission requirements

1. The student must hold a bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university.
2. Recommendation by the Director of the Graduate Interdisciplinary Programs.

Certificate Requirements

1. Once admitted, the student and Program Director will work together to generate a program of study before the student will be released to take courses.
2. The student must complete 12 credit hours of graduate course work with a 3.00 GPA.
3. All other University and Graduate College requirements must be met for completion of a certificate program.

Professional Studies Certificate

Program Description

The Graduate Certificate in Professional Studies is a cross-disciplinary certificate program which provides enhancement of administrative abilities. This certificate program is designed to meet the needs of individuals who have started their careers and are seeking professional growth and advancement within their vocations, but do not have formal training in business skills necessary to assume an administrative role. The certificate offers a short, focused program of study giving students more opportunities for administrative roles within organizations (team leaders, department heads, etc.). The 12 hour certificate program builds upon past work experience, and allows participants to expand their knowledge base, abilities, and skills which can lead to new or enhanced administrative roles within organizations.

Admission Requirements

1. A bachelor's degree from a college or university accredited by agencies recognized by Missouri State University or equivalent education from a foreign university;
2. A Resume;
3. All additional University and Graduate College requirements for admission to a certificate program.

Certificate Requirements - Credit Hours: 12

With the help of the advisor, select a course from 4 of the 8 content areas below.

- Finance/Budgeting/Economics
- Law/Ethics/Regulatory Functions
- Talent Identification/Leadership/Management
- Research Design/Project Development/Data Analysis
- Communication/Relationships/Environment
- Technology/Networking/Security
- Structure/Diversity
- Professional Writing

Duane G. Meyer Library

Contact

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Certificates

Library Media Specialist Certificate

Program Description

The Graduate Certificate in Library Media Specialist provides a 12-hour graduate-level experience that will prepare fully certified teachers with the skills and knowledge required to be an effective Library Media Specialist. The certificate curriculum provides preparation in the areas of information management, organization of information, administrative leadership, program development, personnel and resources management, and assessment of youth-centered library programs and services. Fully certified teachers seeking library media specialist certification will be required to pass the state assessment in addition to these four DESE required courses. This certificate is a Missouri State University certificate and does not meet the State of Missouri certification requirements for teaching.

Entrance Criteria

To be considered for the program, a prospective student must meet the admission requirements for a Graduate Certificate at Missouri State University.

Required Courses - Credit Hours: 12

- LIS 700 - Foundations of Library and Information Science
- LIS 702 - Organization of Information
- LIS 704 - Administration and Leadership of Library Programs
- LIS 706 - Collection Development for Libraries Serving Children and Youth