# Ozarks Technical Community College

OTC Associate of Science in Information Technology to MSU Bachelor of Science in Information Technology - Cybersecurity Option

The following is a guide to graduation with completion of OTC's Associate of Science in Information Technology and MSU's Bachelor of Science in Information Technology degree. The degree may be completed on campus or online. This is a comprehensive major meaning it does not require completion of a minor. Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met. Catalog Year: 2022-2023. Date Modified:5.3.22.

MSU Transfer Advisor: Business Advisement Center, [BusinessAdvisement@MissouriState.edu](mailto:BusinessAdvisement@MissouriState.edu), 417-836-5386

Finish in 4 Go Bears Missouri State University

### OTC Year 1 Semester 1

Program Requirement

* OTC Course ID/Title: CIS 101 Technology and Digital Literacy
* Credit Hours: 3
* MSU Equivalent: ITC 200
* Meets Core 42: No
* MSU Major Requirement: No

Program Requirement

* OTC Course ID/Title: CIS 120 Introduction to Computer Programming
* Credit Hours: 3
* MSU Equivalent: CIS 130
* Meets Core 42: No
* MSU Major Requirement: No

Social/Behavioral Sciences - 9 credit hours for Core 42 - 12 credit hours required for AS - (Must fulfill 2 disciplines)

* OTC Course ID/Title: ECO 270 Principles of Macroeconomics
* Credit Hours: 3
* MSU Equivalent: ECO 155
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Written Communications - 6 credit hours

* OTC Course ID/Title: Choose one: ENG 100 Composition 1 with support, ENG 101 Composition 1
* Credit Hours: 3-5
* MSU Equivalent: ENG 110
* Meets Core 42: Yes
* MSU Major Requirement: No

Mathematical Sciences – 3 credit hours for CORE 42

* OTC Course ID/Title: Choose one: MTH 130, MTH 130S, MTH 131, MTH 138, MTH 140, MTH 141, MTH 210,  
  MTH 215, MTH 230, MTH 240, MTH 241
* Credit Hours: 3-5
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 1 Total = 15-19 credit hours

### OTC Year 1 Semester 2

Program Requirement

* OTC Course ID/Title: ACC 220 Principles of Accounting
* Credit Hours: 3
* MSU Equivalent: ACC 201
* Meets Core 42: No
* MSU Major Requirement: Yes

Program Specific Requirement

* OTC Course ID/Title: CIS 170 Java Programming 1
* Credit Hours: 3
* MSU Equivalent: ITC 260
* Meets Core 42: No
* MSU Major Requirement: Yes

Program Specific Requirement

* OTC Course ID/Title: CIS 201 Computer Applications for Business
* Credit Hours: 3
* MSU Equivalent: ITC 201
* Meets Core 42: No
* MSU Major Requirement: Yes

Social/Behavioral Sciences - 9 credit hours – 12 credit hours required for AS - (Must fulfill 2 disciplines)

* OTC Course ID/Title: ECO 275 Principles of Microeconomics
* Credit Hours: 3
* MSU Equivalent: ECO 165
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Natural Sciences - 8 credit hours required for AS – Must choose one BIIO and one CHM or PHY course

* OTC Course ID/Title: Choose one BIO 100, BIO 105, BIO 160, CHM 101, CHM 160❑, PHY 105, PHY 110,   
  PHY 115, PHY 120, PHY 220
* Credit Hours: 4-5
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 2 Total = 16-17 credit hours

### OTC Year 2 Semester 3

Program Requirement

* OTC Course ID/Title: ACC 225 Managerial Accounting
* Credit Hours: 3
* MSU Equivalent: ACC 211
* Meets Core 42: No
* MSU Major Requirement: Yes

Natural Sciences - 8 credit hours required for AS – Must choose one BIIO and one CHM or PHY course

* OTC Course ID/Title: Choose one BIO 100, BIO 105, BIO 160, CHM 101, CHM 160❑, PHY 105, PHY 110,   
  PHY 115, PHY 120, PHY 220
* Credit Hours: 4-5
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Program Requirement

* OTC Course ID/Title: BUS 140 Business Communications
* Credit Hours: 3
* MSU Equivalent: MGT 286
* Meets Core 42: No
* MSU Major Requirement: Yes

Program Requirement

* OTC Course ID/Title: CIS 250 Database and Query
* Credit Hours: 3
* MSU Equivalent: ITC 295
* Meets Core 42: No
* MSU Major Requirement: Yes

Program Requirement

* OTC Course ID/Title: BUS 160 Business Law
* Credit Hours: 3
* MSU Equivalent: LAW 231
* Meets Core 42: No
* MSU Major Requirement: Yes

Semester 3 Total = 16-17 credit hours

### OTC Year 2 Semester 4

Program Requirement

* OTC Course ID/Title: CIS 230 Systems Analysis and Design
* Credit Hours: 3
* MSU Equivalent: ITC 388
* Meets Core 42: No
* MSU Major Requirement: Yes

Oral Communications – 3 credit hours for Core 42

* OTC Course ID/Title: COM 105 Public Speaking
* Credit Hours: 3
* MSU Equivalent: COM 115
* Meets Core 42: Yes
* MSU Major Requirement: No

Social/Behavioral Sciences - 9 credit hours for Core 42 – Civics Requirement

* OTC Course ID/Title: PLS 101, HST 120, HST 130
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Program Requirement

* OTC Course ID/Title: ITI 107 Computer and Network Hardware
* Credit Hours: 4
* MSU Equivalent: ITC 235
* Meets Core 42: No
* MSU Major Requirement: Yes

Program Requirement

* OTC Course ID/Title: ITI 108 Operating Systems and Software
* Credit Hours: 4
* MSU Equivalent: ITC 000
* Meets Core 42: No
* MSU Major Requirement: No

Social/Behavioral Sciences - 9 credit hours for Core 42 – 12 credit hours required for AS - (Must fulfill 2 disciplines)

* OTC Course ID/Title: PSY 110 Introduction to Psychology
* Credit Hours: 3
* MSU Equivalent: PSY 121
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Semester 4 Total = 18-20  
Total Hours at OTC = 65-73  
Total Hours Applied Toward MSU Major Requirements: 27

\*One credit hour course

▲May choose only one, falls under MOTR code 'PERF’

❑ Must be taken with CHM 161 to count as a lab course. In order to fulfil the Core 42 Natural Science requirement, students must complete at least one lab course.

# Missouri State University

MSU Bachelor of Science in Information Technology - Cybersecurity Option after OTC Associate of Science in Information Technology

Date Modified: 5.3.22  
MSU Transfer Advisor: Business Advisement Center, [BusinessAdvisement@MissouriState.edu](mailto:BusinessAdvisement@MissouriState.edu), 417-836-5386

Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met.

Catalog Year: 2022-23

### MSU Year 3 Semester 1

Major Requirement

* MSU Course ID/Title: ITC 330 Introduction to Networking
* Credit hours: 3

COB Admission Requirement

* MSU Course ID/Title: QBA 237 Basic Business Statistics
* Credit hours: 3

Written Communication

* MSU Course ID/Title: ENG 210 Writing 2: Writing Across the Disciplines, ENG 221 Writing 2: Writing for the Professions
* Credit hours: 3

Humanities & Fine Arts/COB Globalization - 9 credit hours for CORE 42

* MSU Course ID/Title: ENG 341, MUS 239, REL 210
* Credit hours: 3

Humanities & Fine Arts - 9 credit hours for CORE 42 (May only choose 3 total credits from PERF codes)

* MSU Course ID/Title: Choose one: ART 200, ART 271, ART 272, MED 274, MUS 241, MUS 347, MUS 100, MUS 239, MUS 345, MUS 346, PHI 110, PHI 105, PHI 115, REL 100, REL 210, REL 102, REL 101, THE 101, FRN 101, FRN 102, SPN 101, SPN 102, ARB 101, CHI 101, GRM 101, ITL 101, JPN 101, KOR 101, PTG 101, RUS 101, CSD 330, ARB 102, CHI 102, GRM 102, ITL 102, JPN 102, KOR 102, PTG 102, RUS 102, CSD 331, ENG 200, ENG 350, ENG 351, ENG 340, ENG 341, ENG 289, ENG 282, ENG 362, LLT 121; May only choose 3 c.h. from the following: MUS 175, MUS 178, MUS 162, MUS 176, ART 212, ART 115, ENG 215, ENG 205, ENG 203
* Credit hours: 3

Semester 1 Total: 15 Credit Hours

### MSU Year 3 Semester 2

Humanities & Fine Arts - 9 credit hours for CORE 42 (May only choose 3 total credits from PERF codes)

* MSU Course ID/Title: Choose one: ART 200, ART 271, ART 272, MED 274, MUS 241, MUS 347, MUS 100, MUS 239, MUS 345, MUS 346, PHI 110, PHI 105, PHI 115, REL 100, REL 210, REL 102, REL 101, THE 101, FRN 101, FRN 102, SPN 101, SPN 102, ARB 101, CHI 101, GRM 101, ITL 101, JPN 101, KOR 101, PTG 101, RUS 101, CSD 330, ARB 102, CHI 102, GRM 102, ITL 102, JPN 102, KOR 102, PTG 102, RUS 102, CSD 331, ENG 200, ENG 350, ENG 351, ENG 340, ENG 341, ENG 289, ENG 282, ENG 362, LLT 121; May only choose 3 c.h. from the following: MUS 175, MUS 178, MUS 162, MUS 176, ART 212, ART 115, ENG 215, ENG 205, ENG 203
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: FIN 380 Financial Management
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MGT 340 Principles of Management
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MKT 350 Principles of Marketing
* Credit hours: 3

Option Requirement – 12 credit hours required

* MSU Course ID/Title: Choose one: ITC 560, ITC 563, ITC 564, ITC 565, ITC 566, ITC 494 (1-3)
* Credit hours: 3

Semester 2 Total: 15 Credit Hours

### MSU Year 4 Semester 3

Core 42 Requirement

* MSU Course ID/Title: Choose one MOTR coded course to fulfill CORE 42 requirement.
* Credit hours: 1

General Elective

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 1

Major Requirement

* MSU Course ID/Title: ITC 430 Advance Networking
* Credit hours: 3

Option Requirement – 12 credit hours required

* MSU Course ID/Title: Choose one: ITC 560, ITC 563, ITC 564, ITC 565, ITC 566, ITC 494 (1-3)
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MKT 364 Operations Management
* Credit hours: 3

Semester 3 Total: 13 Credit Hours

### MSU Year 4 Semester 4

Option Requirement – 12 credit hours required

* MSU Course ID/Title: Choose one: ITC 560, ITC 563, ITC 564, ITC 565, ITC 566, ITC 494 (1-3)
* Credit hours: 3

Option Requirement – 12 credit hours required

* MSU Course ID/Title: Choose one: ITC 560, ITC 563, ITC 564, ITC 565, ITC 566, ITC 494 (1-3)
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: ITC 429 Information Systems with Business Intelligence
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: MGT 487 Strategic Management and Policy
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: LAW 332 Debtor and Creditor Rights and Remedies
* Credit hours: 1

Semester 4 Total: 13 Credit Hours  
Total Hours at MSU: 55  
Total Hours Overall: 120-128

\*\* Electives provide the opportunity to customize your degree program. Some elective credits may or may not be needed to bring total credit hours to a minimum of 120 credit hours and upper division hours (300+) to 40.

Teacher education program requirements:

* At least a 2.75 GPA on all course work attempted at all colleges attended.
* At least a 3.00 GPA in professional education courses
* At least a 3.00 GPA in any additional certificate subject area

This information is provided as a guide only.

* OTC students are strongly encouraged to meet with their major specific MSU transfer advisor early in their OTC education to discuss the most appropriate OTC coursework for their intended MSU major, MSU degree requirements, etc.
* Students are required to fulfill MSU graduation and GPA requirements to receive a degree and should consult with their MSU advisor and the MSU undergraduate catalog for details, as there may exist pre-requisite requirements as well as periodicity limitations that could affect scheduling sequences.
* Please note that transfer students from Missouri public colleges and universities may follow the general education and general baccalaureate degree requirements in effect at Missouri State when they first enrolled (or re-enrolled after an absence of one calendar year or more) as degree-seeking students at the institutions from which they transferred (e.g., OTC).