



MISSOURI DEPARTMENT OF ELEMENTARY AND SECONDARY EDUCATION  
OFFICE OF EDUCATOR QUALITY – EDUCATOR PREPARATION

## MASTER OF ARTS IN TEACHING (MAT) 5-9 SCIENCE

EDUCATOR PREPARATION PROGRAM NAME <b>MISSOURI STATE UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>119119</b>
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### INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above. The EPP Code may be located at <https://dese.mo.gov/sites/default/files/EPP-Code-Name.pdf>

#### Certification Requirements:

- **Course Number** – List the course number(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- **Course Title** – List the course title(s) for the course(s) or groups of competencies that align with the specific section of the requirements. It is possible to have more than one course or group listed.
- **Semester Hours** – List the number of semester hours for each specific section. It is possible to use decimals (to the nearest tenth) to indicate partial use of a course to meet a requirement. The total number of semester hours must meet or exceed the minimum required number of semester hours.

Email the completed cover sheet, curriculum matrix, and advising/program information to [DESE.MoSPETransition@dese.mo.gov](mailto:DESE.MoSPETransition@dese.mo.gov) on or before the date established in the Transition Plan.

QUESTIONS: Contact Gale Hairston, 573/751-1668 or [DESE.MoSPETransition@dese.mo.gov](mailto:DESE.MoSPETransition@dese.mo.gov)

### A. Professional Requirements (Minimum of 45 semester hours)

1. Content Planning and Delivery			
	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	MID725	Advanced Theory and Practice in the Teaching of Early Adolescents	1(3)
	SFR797	Advanced Studies in Teaching and Learning	2(9)
b. Instructional Strategies and Techniques in Content Area Specialty	SFR797	Advanced Studies in Teaching and Learning	2(9)
c. Assessment, Student Data, and Data-Based Decision-Making	SFR797	Advanced Studies in Teaching and Learning	2(9)
	MID725	Advanced Theory and Practice in the Teaching of Early Adolescents	0(3)
d. Strategies for Content Literacy	RDG710	Content Area Literacy	.25(3)
e. Critical Thinking and Problem Solving	SFR797	Advanced Studies in Teaching and Learning	1(9)
f. English Language Learning	RDG710	Content Area Literacy	0(3)
	RDG574 or RDG640	Analysis and Correction of Difficulties in Literacy	.5(3)
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY710	Psychology of Education	1.25(3)
b. Psychology/Education of the Exceptional Child	SPE715	Foundations in Special Education	3
c. Differentiated Learning	SFR797	Advanced Studies in Teaching and Learning	1(9)
	MID 725	Educational Applications of Computers for Teaching	.25(3)
	RDG710	Content Area Literacy	.25(3)
	RDG574 or RDG640	Analysis and Correction of Difficulties in Literacy	0(3)
d. Classroom Management	SFR797	Advanced Studies in Teaching and Learning	.25(9)
	PSY710	Psychology of Education	.25(3)
	SEC783	Internship in Teaching I	1(3).
e. Cultural Diversity	RDG560 or RDG660 or RDG665	Diversity Issues in Literacy and Content Area Instruction	2(3)
	SFR797	Cultural Diversity in Literacy and Instruction: Classrooms and Community	2(3)
	PSY710	Advanced Studies in Teaching and Learning	.25(9)
f. Educational Psychology	PSY710	Psychology of Education	1.5(3)
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours

a. Consultation and Collaboration	SFR797 RDG710 SEC784	Advanced Studies in Teaching and Learning Content Area Literacy Internship in Teaching II	.25(9) 0(3) 1(10)
b. Legal/Ethical Aspects of Teaching	SFR797	Advanced Studies in Teaching and Learning	.25(9)
c. Middle School Philosophy and Organization	MID725	Advanced Theory and Practice in the Teaching of Early Adolescents	1.75(3)

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4. Middle School Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	RDG710 RDG560 or RDG660 or RDG665	Content Area Literacy Diversity Issues in Literacy and Content Area Instruction  Cultural Diversity in Literacy and Instruction: Classrooms and Community	2.5(3) .5(3)  .5(3)
b. Instructional Interventions for Students with Reading Deficits	RDG574 or RDG640 RDG560 or RDG660 or RDG665	Analysis and Correction of Difficulties in Literacy Diversity Issues in Literacy and Content Area Instruction  Cultural Diversity in Literacy and Instruction: Classrooms and Community	2.5(3) .5(3)  .5(3)
5. Content Knowledge for Teaching (Minimum of 24 semester hours with appropriate distribution in one of the following certificate subject areas)			
	Course Number	Course Title	Semester Hours
a. Science	Choose one BIO101/111 BIO121	Choose one (1) Biology in your World/Lab General Biology I	4 4
	Choose one PHY123 PHY203 PHY100	Choose one (1) Introduction to Physics I Foundations of Physics I Survey of Physics/Lab	4 5 4
	Choose one CHM116/117 CHM160/161	Choose one (1) Fundamentals of Chemistry/Lab General Chemistry/Lab	5 5
	Choose one GRY135 GLG110 GLG171 GLG314	Choose one (1) Principles of Weather and Climate Principles of Geology Environmental Geology Historical Geology	4 4 3 5
	Choose one BIO122 AST115 CHM170/171	General Biology II Basic Astronomy General Chemistry II/Lab	4 4 4
	For additional coursework choose from  SCI505	  Intellectual Foundations of Science and Technology	  3
	BIO210 or BIO310 BIO369 PHY124 PHY204 GLG318	Elements of Microbiology Microbiology General Ecology Introduction to Physics II Foundations of Physics II Physical Oceanography	3 5 4 4 5 3
<b>Professional Requirements – Total Semester Hours</b>			<b>MAT=53</b>
B. Field and Clinical Experiences (Minimum of ten semester hours)			
	Course Number	Course Title	Semester Hours
1. Early Field Experiences (Minimum of one semester hour with a minimum of 30 clock hours)	SEC783	Internship in Teaching I	1(3)
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	SEC783	Internship in Teaching I	1(3)

3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	SEC784	Internship in Teaching II	9(10)
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>11</b>