



MIDDLE SCHOOL EDUCATION - SCIENCE, GRADES 5-9

EDUCATOR PREPARATION PROGRAM NAME MISSOURI STATE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 119119
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INSTRUCTIONS

Please complete Educator Preparation Program (EPP) Name & EPP Code above.

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 on or before the date established in the Transition Plan.

QUESTIONS: Contact Educator Preparation, 573/751-1668 or 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	SEC302	Reading and Writing in the Content Fields, Content Area Literacy	1(3)
b. Instructional Strategies and Techniques in Content Area Specialty	Choose one SCI404 or ELE434	Choose one (1) Teaching of Middle School Natural Science Methods of Teaching Science in Elementary Schools	1(3) 1(3)
c. Assessment, Student Data, and Data-Based Decision-Making	SFR486 or MID439	Management and Assessment in the Middle and Secondary Classroom Middle School Instructional Strategies	1.5(3) 1(3)
d. Strategies for Content Literacy	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
e. Critical Thinking and Problem Solving	SEC302 EDC350 or MID439	General Methods of Instruction in the Middle and Secondary Schools School and Society Middle School Instructional Strategies	.5(3) 1.5(3) 1(3)
f. English Language Learning	RDG474 or RDG710 RDG640 or RDG574/624	Reading and Writing in the Content Fields, Content Area Literacy Analysis and Correction of Difficulties in Literacy Analysis and Correction of Difficulties in Adolescent Literacy	0(3) 0(3) 0(3)

2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY360 or PSY710	Educational Psychology, Psychology of Education	1.5(3)
b. Psychology/Education of the Exceptional Child	SPE340 or SPE710 or SPE310	Educational Alternative for Exceptional Students, Foundations in Special Education Introduction to Special Education	2-3 3
c. Differentiated Learning	SEC302	General Methods of Instruction in the Middle and Secondary School	.5(3)
	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
	RDG640 or	Analysis and Correction of Difficulties in Literacy	0(3)
	RDG574/624	Analysis and Correction of Difficulties in Adolescent Literacy	0(3)
d. Classroom Management	SFR486 or	Management and Assessment in the Middle and Secondary Classroom	1.5(3)
	MID400	Philosophy, Curriculum and Organization of Middle School Education	.5(3)
	MID439	Middle School Instructional Strategies	0(3)
e. Cultural Diversity	EDC345	Introduction to Multicultural Education and Diversity	3
f. Educational Psychology	PSY360 or PSY710	Educational Psychology, Psychology of Education	1.5(3)
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	0(3)
b. Legal/Ethical Aspects of Teaching	EDC350 or MID439	School and Society or Middle School Instructional Strategies	1.5(3) 0(3)
	MID493	Supervised Teaching	.5(6)
	MID494	Supervised Teaching	.5(6)
c. Middle School Philosophy and Organization	MID400	Philosophy, Curriculum and Organization of Middle School Education	2.5(3)
4. Middle School Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	RDG474 or RDG710	Reading and Writing in the Content Fields, Content Area Literacy	3
b. Instructional Interventions for Students with Reading Deficits	RDG640 or	Analysis and Correction of Difficulties in Literacy	3
	RDG574/624	Analysis and Correction of Difficulties in Adolescent Literacy	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 BIO100 BIO101/111 BIO121	Choose one (1) Biological Science for Educators Biology in Your World/Lab General Biology I	4 4 4	
	Choose one PHY101 PHY100 PHY123	Choose one (1) Physics by Inquiry for Educators Survey of Physics with Laboratory Introduction to Physics I	4 4 4	
	Choose one CHM116/117 CHM107/108 CHM160/161	Choose one (1) Fundamentals of Chemistry/Lab Chemistry for the Citizen/Lab General Chemistry I/Lab	5 4 5	
	Choose one GRY240 GRY142	Choose one (1) Earth Science for Teachers Introductory Physical Geography	4 4	
	BIO205 GRY108 PHY501	Life Science for Middle School Principles of Sustainability Physics and Astronomy By Inquiry	2 3 2	
	For additional coursework choose from			
	Choose one AST113 or AST114 or AST115 or	Choose one (1) Modern Astronomy or Survey of Astronomy or Basic Astronomy	3 4 4	
	BIO122 BIO210 BMS110 BMS307 CHM170/171 GLG110 GLG171 GRY135 PHY124 PHY495	General Biology II Elements of Microbiology Introduction to the Biomedical Sciences Human Anatomy General Chemistry II/Lab Principles of Geology Environmental Geology Principles of Weather and Climate Introduction to Physics II Readings in Physics	4 3 3 4 4 4 3 4 4 1-4	
	Professional Requirements - Total Semester Hours			BSED/PB= 50.5-51.5
	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)	SEC302	General Methods of Instruction in the Middle and Secondary Schools	1(3)
	2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	MID439	Middle School Instructional Strategies	1(3)
		SCI404	Teaching of Middle School Natural Science *ELE majors adding Middle School certification will use ELE434 (methods course) and will have completed 125 clock hours of mid-level practicum in ELE500.	2(3)
	3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	MID493 MID494	Supervised Teaching Supervised Teaching	5.5(6) 5.5(6)
	Field and Clinical Experiences - Total Semester Hours			15

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