



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

**MIDDLE SCHOOL EDUCATION SCIENCE, GRADES 5-9**

EDUCATOR PREPARATION PROGRAM NAME <b>WEBSTER UNIVERSITY</b>	EDUCATOR PREPARATION PROGRAM CODE <b>300335</b>
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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 grouplisted.
- 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 grouplisted.
- 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 Educator Preparation, 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	EDUC 4200 OR EDUC 3500	Middle School Curriculum and Instruction OR Methods of Teaching Secondary School	1
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC 4585	Methods of Teaching Middle School Science	3
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC 3100 Or PSYC 2400 & EDUC 3120	Learning, Teaching and Assessment Or Educational Psychology and Classroom Assessment	1.5
d. Strategies for Content Literacy	EDUC 4200 OR EDUC 3500 EDUC 3900	Middle School Curriculum and Instruction OR Methods of Teaching Secondary School Methods of Teaching Reading and Writing in the Content Area	1  0
e. Critical Thinking and Problem Solving	EDUC 4200 OR EDUC 3500	Middle School Curriculum & Instruction OR Methods of Teaching Secondary School	1
f. English Language Learning	EDUC 4435	Inclusive Practices for General Ed Teacher	.75
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	EDUC 2300 or PSYC 2300 or PSYC 2200 & PSYC 2250	Child and Adolescent Development or Lifespan Development or Child Psychology & Adolescent Psychology	3
b. Psychology/Education of the Exceptional Child	EDUC 2900	Education of Students with Exceptionalities	3
c. Differentiated Learning	EDUC 4435	Inclusive Practices for the General Education Teacher	.75
d. Classroom Management	EDUC 3375	Behavioral Management	3
e. Cultural Diversity	EDUC 2800 or EDUC 3150 EDUC 4435	Foundations of Education or Education in a Diverse Society Inclusive Practices for the General Education Teacher	1.5  .75
f. Educational Psychology	EDUC 3100 Or PSYC 2400 & EDUC 3120	Learning, Teaching and Assessment Or Educational Psychology and Classroom Assessment)	1.5

3. Schools and the Teaching Profession				
	Course Number	Course Title	Semester Hours	
a. Consultation and Collaboration	EDUC 4435	Inclusive Practices for the General Education Teacher	.75	
b. Legal/Ethical Aspects of Teaching	EDUC 2800 or EDUC 3150	Foundations of Education or Education in a Diverse Society	1.5	
c. Middle School Philosophy and Organization	EDUC 2240	Middle School Philosophy and History	3	
4. Middle School Literacy (Minimum of 6 semester hours)				
	Course Number	Course Title	Semester Hours	
a. Reading and Writing in the Content Area	EDUC 3900	Methods of Teaching Reading and Writing in the Content Area	3	
b. Instructional Interventions for Students with Reading Deficits	EDUC 4695	Differentiated Reading Assessment and Intervention	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	
f. Science	BIOL 1550/1551	Essentials of Biology I/lab	5	
	CHEM 1100/1101	General Chemistry I/lab	4	
	PHYS 1710/1711 OR SCIN 1400/1401	College Physics I/lab OR Physics for Poets	4	
	SCIN 1470/1471	Earth and Universe/lab	4	
	SCIN 1510 or SCIN 1520/21	Global Climate Change Environment/lab	3	
	SCIN 1600/1601	Physical Geology/lab	4	
	Acceptable alternates in consultation with advisor:			
	BIOL 1010	Human Biology	4	
	BIOL 1020/1021	Biology of Animals/lab	4	
	BIOL 1030/1031	Biology of Plants/lab	4	
	BIOL 1560/1561	Essentials of Biology II/lab	5	
	CHEM 1050	Concepts in Chemistry	3	
	CHEM 1110/1111	General Chemistry II/lab	4	
	SCIN 2530	Global Ecologies & Sustainable Living	3	
SCIN 1150	Astronomy	3		
<b>Professional Requirements - Total Semester Hours</b>			<b>56-60</b>	
B. Field and Clinical Experiences (Minimum of 10 semester hours)				
	Course Number	Course Title	Semester Hours	
1. Early Field Experiences (Minimum of 1 semester hour with a minimum of 30 clock hours)	EDUC 2000 Or EDUC 3155	Beginning Practicum or Early Diversity Practicum	1	
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	EDUC 3003	Practicum: Middle School Science	3	
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	EDUC 4967	Apprentice Teaching: Middle School Science	13	
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>17</b>	

The Department of Elementary and Secondary Education does not discriminate on the basis of race, color, religion, gender, national origin, age, or disability in its programs and activities. Inquiries related to Department programs and to the location of services, activities, and facilities that are accessible by persons with disabilities may be directed to the Jefferson State Office Building, Office of the General Counsel, Coordinator – Civil Rights Compliance (Title VI/Title IX/504/ADA/Age Act), 6<sup>th</sup> Floor, 205 Jefferson Street, P.O. Box 480, Jefferson City, MO 65102-0480; telephone number 573-526-4757 or TTY 800-735-2966 email [civilrights@dese.mo.gov](mailto:civilrights@dese.mo.gov).