



BIOLOGY, GRADES 9-12

EDUCATOR PREPARATION PROGRAM NAME HARRIS-STOWE STATE UNIVERSITY	EDUCATOR PREPARATION PROGRAM CODE 300194
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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 26 semester hours)

1. Content Planning and Delivery			
	Course Number	Course Title	Semester Hours
a. Curriculum and Instructional Planning	EDUC0354	Methods of Teaching Secondary Biology: Content	.67 (2)
b. Instructional Strategies and Techniques in Content Area Specialty	EDUC0354	Methods of Teaching Secondary Biology: Content	.67 (2)
c. Assessment, Student Data, and Data-Based Decision-Making	EDUC0407	Classroom Assessment of Student Learning	.75 (3)
d. Strategies for Content Literacy	EDUC0347B	Content Area Reading	0 (3)
	EDUC 0345	Reading and Writing in the Middle and Secondary Content Area	0 (3)
e. Critical Thinking and Problem Solving	EDUC0407	Classroom Assessment of Student Learning	1 (3)
	EDUC0223	Computers and Instructional Technology	1.5 (3)
f. English Language Learning	EDUC0318	Cultural Diversity and Methods of Teaching English Language Learners	1.5 (3)
2. Individual Student Needs			
	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	PSY0308	Human Growth and Development	3
b. Psychology/Education of the Exceptional Child	PSY0312	Psychology/Education of the Exceptional Child	3
c. Differentiated Learning	EDUC0354	Methods of Teaching Secondary Biology: Content	1 (2)
	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0223	Computers & Instructional Technology	1.5 (3)
d. Classroom Management	EDUC0401B	Middle and Secondary Classroom Organization and Management	2.5 (3)
e. Cultural Diversity	EDUC0318	Cultural Diversity and Methods of Teaching English Language Learners	1.5 (3)
f. Educational Psychology	PSY0305	Educational Psychology	3
3. Schools and the Teaching Profession			
	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0407	Classroom Assessment of Student Learning	.75 (3)

b. Legal/Ethical Aspects of Teaching	EDUC0230	Middle/Junior and Senior High School Philosophy, Organization, and Curriculum	.75 (4)
	EDUC0407	Classroom Assessment of Student Learning	.75 (3)
4. Secondary Literacy (Minimum of six semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	EDUC 0345	Reading and Writing in the Middle and Secondary Content Area	3
b. Instructional Interventions for Students with Reading Deficits	EDUC 0347B	Content Area Reading	3
Professional Requirements - Total Semester Hours			33
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)	EDUC0401B	Middle and Secondary Classroom Organization and Management (30 clock hours)	1 (3)
2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours)	EDUC0347B	Content Area Reading (20 clock hours)	0 (3)
	EDUC0355	Methods of Teaching Middle and Secondary Science: Content Applications (60 clock hours)	2
3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement)	EDUC0402III	Supervised Student Teaching	12
Field and Clinical Experiences - Total Semester Hours			15
C. Biology Content Knowledge Area (Minimum of 35 semester hours)			
	Course Number	Course Title	Semester Hours
1. History/Philosophy of Science and Technology (Minimum of three semester hours)	BIO0240	Science and Technology	3
2. Biology Coursework – Minimum of 20 semester hours which must include:			
a. Cell Biology	BIO0202 BIO 0206	Principles of Cell Biology Or Cell and Molecular Biology	3
b. Plant Form and Function	BIO0200 BIO0337	Botany OR Horticulture	3
c. Animal Form and Function	BIO0209 BIO0210	Vertebrate Zoology OR Invertebrate Zoology	3
d. BIO Survey II	BIO0153 BIO0154	Biology Survey II (Lecture) Biology Survey II (Laboratory)	3 2
e. Genetics	BIO 0414	Genetics	3
f. Evolution	BIO 0305	Evolution	3
g. Biology Electives	BIO0201 BIO0203 BIO0224 BIO0230 BIO0301 BIO0303 BIO0312 BIO0316 BIO0317 BIO0310I BIO0319 BIO 0120 BIO 0131 BIO 0132 BIO 0141 BIO 0142 BIO 0151 BIO 0152 BIO 0203 BIO 0204	Plants and People Nutrition Ornithology Local Flora Human Parasitology Ecology Introduction to Microbiology Urban Ecosystems (Lecture) & Urban Ecosystems (Laboratory) Human Anatomy & Physiology I (Lecture) & Human Anatomy & Physiology II (Laboratory) Applications of Biotechnology Introduction to Biology (Lecture) Introduction to Biology (Lab) Principles of Biology (Lecture) Principles of Biology (Lab) Biology Survey (Lecture) Biology Survey (Lab) Nutrition Introduction to Sustainability	3 3 3 3 3 3 3 3 2 3 2 1 3 2 3 2 3 2 3 2 3 3

	BIO 0205	Principles in Urban Agriculture and the Edible Landscape	3
	BIO 0217	Principles of Horticulture	3
3. Additional Science Coursework – Minimum of 12 semester hours which must include:			
a. Chemistry	CHEM0255	General Chemistry I (Lecture)	3
b. Physics	PHY0251	General Physics: Mechanics (Lecture)	3
	PHY0253	OR Physics I: Mechanics (Lecture)	3
c. Earth Science	GEO0250I	General Geology	3
d. Environmental Science	BIO0313	Environmental Science	3
Content Knowledge Area - Total Semester Hours			38

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