



**BIOLOGY, GRADES 9-12**

EDUCATOR PREPARATION PROGRAM NAME <b>Avila University</b>	EDUCATOR PREPARATION PROGRAM CODE <b>511932</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 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 Educator Preparation, 573-751-1668 or [DESE.MoSPETransition@dese.mo.gov](mailto: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	ED 185/585 ED 315/515	Practicum General Methods & Differentiated Learning	1.0 1.0
b. Instructional Strategies and Techniques in Content Area Specialty	ED 455/555	Special Methods	1.0
c. Assessment, Student Data, and Data-Based Decision-Making	ED 315/515	General Methods & Differentiated Learning	1.0
	ED 320/520	Technology in Education	1.0
	ED 495/595 or ED 596	Final Clinical Experience Seminar or Internship	1.0
d. Strategies for Content Literacy	ED 375/575	Reading Strategies & Interventions in the Content Area I	-
	ED 376/576	Reading Strategies & Interventions in the Content Area II	-
e. Critical Thinking and Problem Solving	ED 185/585	Practicum	-
	ED 320/520	Technology in Education	1.0
	ED 495/595 or ED 596	Final Clinical Experience or Internship	1.0
f. English Language Learning	ED 287/587	Multicultural Foundations of Education	1.0

**2. Individual Student Needs**

	Course Number	Course Title	Semester Hours
a. Psychological Development of the Child and Adolescent	ED 229/529	Developmental & Educational Psychology	1.5
b. Psychology/Education of the Exceptional Child	ED 235/535	Psychology of the Exceptional Child	2.0
c. Differentiated Learning	ED 315/515	General Methods & Differentiated Learning	1.0
	ED 320/520	Technology in Education	1.0
	ED 455/555	Special Methods	1.0
d. Classroom Management	ED 419/519	Managing the Learning Environment	2.0
e. Cultural Diversity	ED 287/587	Multicultural Foundations of Education	2.0
f. Educational Psychology	ED 229/529	Developmental Educational Psychology	1.5

**3. Schools and the Teaching Profession**

	Course Number	Course Title	Semester Hours
a. Consultation and Collaboration	ED 185/585	Practicum	1.0
	ED 494/594	Final Clinical Experience Seminar	2.0
b. Legal/Ethical Aspects of Teaching	ED 235/535	Psychology of the Exceptional Child	1.0
	ED 419/519	Managing the Learning Environment	1.0

4. Secondary Literacy (Minimum of 6 semester hours)			
	Course Number	Course Title	Semester Hours
a. Reading and Writing in the Content Area	ED 375/575	Reading Strategies & Interventions in the Content Area I	3.0
b. Instructional Interventions for Students with Reading Deficits	ED 376/576	Reading Strategies & Interventions in the Content Area II	3.0
<b>Professional Requirements - Total Semester Hours</b>			<b>32.0</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)	ED 185/585	Practicum	1.0
2. Mid-Level Field Experiences (Minimum of 1 semester hour with a minimum of 45 clock hours)	ED 455/555	Special Methods in the Content Area	1.0
3. Culminating Clinical Experiences (Minimum of 8 semester hours with a minimum of 12 weeks in 1 placement)	ED 495/595 <i>or</i> ED 596	Final Clinical Experience <i>or</i> Internship	8.0
<b>Field and Clinical Experiences - Total Semester Hours</b>			<b>10.00</b>
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 3 semester hours)	NS 380 <i>OR</i> IS 369	Special Topics: History/Philosophy of Science & Technology <i>OR</i> Reasoning, History & Social Implications of Science	3.0
2. Biology Coursework – Minimum of 20 semester hours which must include			
a. Cell Biology	BI 111	General Biology: Cells/Genes	4.0
b. Plant Form and Function	BI 214	Organismal Biology with Lab	2.0
c. Animal Form and Function	BI 214	Organismal Biology with Lab	2.0
d. Genetics	BI 318	Genetics	3.0
e. Evolution	BI 112 <i>OR</i> BI 310	General Biology: Ecology of Evolution <i>OR</i> Evolution	4.0 <i>or</i> 3.0
f. Biology Electives	BI 220 BI 250 BI 321 BI 351 BI 360 BI 361 BI 363	Choose at least 3 credit hours: Human Anatomy & Physiology (6-8) General Microbiology (4) Immunology (3) Introduction to Animal Behavior (3) Ecology (3)* Ecology Laboratory (2) Conservation Biology (3)*	3.0
3. Additional Science Coursework – Minimum of 12 semester hours which must include			
a. Chemistry	CH 135	General Chemistry I	4.0
b. Physics	PH 117 <i>OR</i> PH 231	Physics Concepts <i>OR</i> General Physics I	4.0 <i>or</i> 5.0
c. Earth Science	NS 221	Physical Geology	4.0
d. Environmental Science	BI 115 <i>OR</i> BI 360 <i>OR</i> BI 363	Humans & the Environment Ecology Conservation Biology	4.0 <i>or</i> 3.0 <i>or</i> 3.0
<b>Content Knowledge Area - Total Semester Hours</b>			<b>35 – 41</b>

\*If not taken to meet the Environmental Science Requirement

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