



BIOLOGY, GRADES 9-12 – ALTERNATIVE

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| EDUCATOR PREPARATION PROGRAM NAME SAINT LOUIS UNIVERSITY | EDUCATOR PREPARATION PROGRAM CODE 300310 |
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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 | EDI-6230 EDI-6550 EDI-6250 EDI-5960 | Instructional Design Principles of Assessment Supervised Practicum MAT Capstone | 1.00 .50 .50 .75 |
| b. Instructional Strategies and Techniques in Content Area Specialty | EDI-6230 EDSP-5310 EDI-6250 EDI-5960 | Instructional Design Adv Psych & Ed of Exceptional Supervised Practicum MAT Capstone Content Area Methods Workshops | 1.00 .50 1.00 .50 NC |
| c. Assessment, Student Data, and Data-Based Decision-Making | EDI-6550 EDI-6250 EDI-5960 | Principles of Assessment Supervised Practicum MAT Capstone | 1.50 .50 .50 |
| d. Strategies for Content Literacy (See also Secondary Literacy) | EDI-5390 | Teaching Reading | -- |
| e. Critical Thinking and Problem Solving | EDI-6230 EDI-6550 EDSP-4250 EDI-6250 EDI-5960 | Instructional Design Principles of Assessment Classroom Org and Mgmt Supervised Practicum MAT Capstone | .50 .50 .25 .50 .50 |
| f. English Language Learning | EDI-5600 | Principles of Urban & Multi-Cultural Education | 1.50 |

2. Individual Student Needs

| | Course Number | Course Title | Semester Hours |
|--|---|---|-------------------------|
| a. Psychological Development of the Child and Adolescent | EDF-5700 | Adv Growth & Development | 2.00 |
| b. Psychology/Education of the Exceptional Child | EDSP-5310 | Adv Psych & Ed of Exceptional | 1.00 |
| c. Differentiated Learning | EDI-6230 EDSP-5310 EDI-6250 EDI-5960 | Instructional Design Adv Psych & Ed of Exceptional Supervised Practicum MAT Capstone | .50 50 .50 .25 |
| d. Classroom Management | EDSP-4250 EDF-5700 EDI-6250 | Classroom Org & Mgmt Adv Growth & Development Supervised Practicum | 2.25 .50 .50 |
| e. Cultural Diversity | EDI-5600 | Principles of Urban & Multi-Cultural Education | 1.50 |
| f. Educational Psychology | EDF-5700 EDSP-5310 | Adv Growth & Development Adv Psych & Ed of Exceptional | .50 .50 |

| 3. Schools and the Teaching Profession | | | |
|---|---------------|--|----------------|
| | Course Number | Course Title | Semester Hours |
| a. Consultation and Collaboration | EDF-6550 | Principles of Assessment | .25 |
| | EDSP-5310 | Adv Psych and Educ of Exceptional | .25 |
| | EDSP-4250 | Classroom Org & Mgmt | .25 |
| | EDI-6250 | Supervised Practicum | .50 |
| | EDI-5960 | MAT Capstone | .25 |
| b. Legal/Ethical Aspects of Teaching | EDI-6550 | Principles of Assessment | .25 |
| | EDSP-5310 | Adv Psych and Educ of Exceptional | .25 |
| | EDSP-4250 | Classroom Org & Mgmt | .25 |
| 4. Secondary Literacy (Minimum of six semester hours) | | | |
| | Course Number | Course Title | Semester Hours |
| a. Reading and Writing in the Content Area | EDI-5390 | Teaching Reading | 3.0 |
| b. Instructional Interventions for Students with Reading Deficits | EDI-5100 | Disciplinary Literacy Assessment & Intervention | 3.0 |
| Professional Requirements - Total Semester Hours | | | 30.75 |
| 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) | | Two years of full-time teaching on a provisional certificate | |
| 2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours) | | Two years of full-time teaching on a provisional certificate | |
| 3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement) | | Two years of full-time teaching on a provisional certificate | |
| Field and Clinical Experiences - Total Semester Hours | | | |
| 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) | | Bachelor's Degree with Major in a Related Content Area MoCA MoPTA Content Area Workshops School Mentor and University Supervisor School/District Professional Development | |
| 2. Biology Coursework – Minimum of 20 semester hours which must include: | | | |
| a. Cell Biology | | | |
| b. Plant Form and Function | | | |
| c. Animal Form and Function | | | |
| d. Genetics | | | |
| e. Evolution | | | |
| f. Biology Electives | | | |
| 3. Additional Science Coursework – Minimum of 12 semester hours which must include: | | | |
| a. Chemistry | | | |
| b. Physics | | | |
| c. Earth Science | | | |
| d. Environmental Science | | | |
| Content Knowledge Area - Total Semester Hours | | | |

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