



BIOLOGY, GRADES 9-12

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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 3310 | Curriculum and Methods in Teaching Secondary Science | 3 |
| | EDI 4210 | Methods of Technology Integration | 3 |
| b. Instructional Strategies and Techniques in Content Area Specialty | EDI 3310 | Curriculum and Methods in Teaching Secondary Science | - |
| c. Assessment, Student Data, and Data-Based Decision-Making | EDI 4420 | Assess Classroom Performance | 3 |
| | EDR 3891 | Qualitative and Quantitative Methods | 3 |
| d. Strategies for Content Literacy | EDI 3200 | Reading/Writing Content Fld. | - |
| e. Critical Thinking and Problem Solving | EDI 4210 | Methods of Technology Integration | - |
| f. English Language Learning | EDI 3001 | English Language Learners | 3 |

2. Individual Student Needs

| | Course Number | Course Title | Semester Hours |
|--|---------------|--|----------------|
| a. Psychological Development of the Child and Adolescent | EDF 2240 | Growth Dev & Learning | 3 |
| b. Psychology/Education of the Exceptional Child | EDSP 4310 | Ed & Psych of the Exceptional Ind. | 3 |
| c. Differentiated Learning | EDSP 4480 | Teach Meth Incl. Class Mid & Sec | 3 |
| | EDSP 4310 | Ed & Psych of the Exceptional Ind. | - |
| d. Classroom Management | EDSP 4250 | Classroom Organization and Management (Mid, Sec) | 3 |
| e. Cultural Diversity | EDF 3620 | Multicultural Issues in the Classroom | 3 |
| f. Educational Psychology | EDF 2240 | Growth Dev & Learning | - |

3. Schools and the Teaching Profession

| | Course Number | Course Title | Semester Hours |
|--------------------------------------|---------------|------------------------------------|----------------|
| a. Consultation and Collaboration | EDSP 4480 | Teach Meth Incl. Class Mid & Sec | - |
| | EDF 3890 | School and Community | 3 |
| b. Legal/Ethical Aspects of Teaching | EDF 2040 | Foundations of Secondary Education | - |
| | EDF 3840 | Prof. Ethics | 3 |
| | EDI 4870 | Professional Development Seminar | 3 |

| 4. Secondary Literacy (Minimum of six semester hours) | | | |
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| | Course Number | Course Title | Semester Hours |
| a. Reading and Writing in the Content Area | EDI – 3200 | Reading/Writing Content Fld. | 3 |
| b. Instructional Interventions for Students with Reading Deficits | EDI 4200 | Disciplinary Literacy Assessment & Intervention for Secondary Students | 3 |
| Professional Requirements - Total Semester Hours | | | 45 |
| 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) | EDF 2040 EDF 3890 EDSP 4310 EDL 3892 | Foundations of Secondary Education School and Community Education of the Exceptional Individual Leadership and Service Seminar | 1 (35 hrs.**) .29 (10hrs.**) .14 (5 hrs.**) .43 (15hrs.**) |
| 2. Mid-Level Field Experiences (Minimum of one semester hour with a minimum of 45 clock hours) | EDI 3315 EDI 3200 EDI 4200 EDI 4420 | Practicum in Teaching Secondary Science Reading and writing in the Content Fields Disciplinary Literacy Assessment-Secondary Assess Classroom Performance | 3 (105 hrs.**) .43 (15hrs.**) .29 (10hrs.**) .17 (6 hrs.**) |
| 3. Culminating Clinical Experiences (Minimum of eight semester hours with a minimum of 12 weeks in one placement) | EDI 4840 | Obs & Student Teach Sec | 10 (15 weeks) |
| Field and Clinical Experiences - Total Semester Hours | | | 16 |
| 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) | EDI 4280 | Educational Inquiries Into The History, Nature, & Philosophy of Science & Technology | 3 |
| 2. Biology Coursework – Minimum of 20 semester hours which must include: | | | |
| a. Cell Biology | BIOL 3020 | Biochemistry & Molecular Biology | 3 |
| b. Plant Form and Function | BIOL 3260 | Biology of Plants & Fungi | 4 |
| c. Animal Form and Function | BIOL 1060 BIOL 1040 | Principles of Biology II Principles of Biology I | 4 4 |
| d. Genetics | BIOL 3030 | Principles of Genetics | 3 |
| e. Evolution | BIOL 3010 | Evolutionary Biology | 3 |
| f. Biology Electives | | | |
| 3. Additional Science Coursework – Minimum of 12 semester hours which must include: | | | |
| a. Chemistry | CHEM 1110 CHEM 1115 | General Chemistry I Lecture General Chemistry I Lab | 3 1 |
| b. Physics | PHYS 1130 o1220 | Astronomy or General Physics | 3 or 4 |
| c. Earth Science | EAS 1010 | Earth Systems I-The Solid Earth | 3 |
| d. Environmental Science | BIOL 4750 or EAS 1080 | General Ecology or Environmental Science | 3 |
| Content Knowledge Area - Total Semester Hours | | | 37-38 |

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**1 credit hour is equivalent to 35 contact hours