

## Secondary Education: Grades 9-12

### Biology

- Minimum grade point average of 3.0 on a 4.0 scale is required in all professional education courses.
- Minimum grade point average of 3.0 on a 4.0 scale is required in content area.
- A course grade less than a “C” is not allowed. A grade of “C-“ or lower does not satisfy the requirement.
- Minimum cumulative grade point average of 2.75 on a 4.0 scale required for certification.
- Students must complete all the blocks in the program sequence. Blocks should be taken in total.

### *School of Education Core Curriculum*

#### **Moral & Ethical Development**

- \_\_ THEO 1000 Theological Foundations
- \_\_ PHIL 1050 Introduction to Philosophy
- \_\_ EDF 3840 Professional Ethics

#### *Required Assessment*

- \_\_ Ethics Case Study

#### **Leadership & Service**

- \_\_ ANY HIST course
- \_\_ ANY POLS, SOC, PSY, or ECON course
- \_\_ EDL 3892 Leadership & Service Seminar

#### *Required Assessment*

- \_\_ Leadership & Service Reflection

#### **Inquiry**

- \_\_ MATH
- \_\_ Any Science course with Lab
- \_\_ EDR 3891 Qualitative & Quantitative Methods
- \_\_ EDR 4970 Action Research for Educators

#### **Multicultural Studies**

- \_\_ EDF 3890 School & Community

#### *Select two courses from the following:*

- \_\_ EDF 3620 Cultural Diversity in the Classroom
- \_\_ EDSP 4310 Education of the Exceptional Individual
- \_\_ EDSP 4480 Methods of Inclusive Classrooms

#### **Communication & Technology**

- \_\_ CMM 1200 Introduction to Public Speaking
- \_\_ ENGL 1900 Advanced Strategies of Rhetoric & Research
- \_\_ Any Fine Arts
- \_\_ Any Literature Course
- \_\_ EDI 3893 Technological Application for Professionals

### *Secondary Education Curriculum*

#### **Block 1. Foundations of Teaching & Learning (6)**

- \_\_ EDF 2040 Foundations of Secondary Schools
- \_\_ EDI 2940 Portfolio I
- \_\_ EDF 2240 Growth, Development & Learning

#### *Required Assessments*

- \_\_ Missouri Educator Profile
- \_\_ Missouri General Education Assessment

#### **Block 2. Reaching Diverse Learners (9)**

- \_\_ EDF 3620 Cultural Diversity in the Classroom
- \_\_ EDSP 4310 Education of the Exceptional Child
- \_\_ EDI 3001 English Language Learners

MoGEA must be passed prior to enrolling in Block 3!

#### **Block 3. Teaching Methods & Strategies (9) (fall junior year)**

- \_\_ EDI 4210 Methods of Technology Integration
- \_\_ EDI 3310 Methods in Teaching Secondary Science
- \_\_ EDI 3315 Practicum in Teaching Secondary Science

#### **Block 4. Literacy & Assessment Practices (6)**

- \_\_ EDI 4420 Assessing Classroom Performance
- \_\_ EDI 3200 Reading & Writing in the Content Fields

#### **Block 5. The Classroom Environment (9)**

- \_\_ EDSP 4480 Teaching Methods for Inclusive Classrooms
- \_\_ EDSP 4250 Classroom Management & Organization
- \_\_ EDI 4200 Disciplinary Literacy Assessment & Intervention
- \_\_ EDI 3940 Portfolio Development II

#### *Required Assessment*

- \_\_ Missouri Content Assessment, Biology 9-12

#### **Block 6. Becoming a Practitioner (15)**

- \_\_ EDI 4840 Student Teaching
- \_\_ EDR 4970 Action Research for Educators
- \_\_ EDI 4870 Professional Development Seminar
- \_\_ EDI 4940 Portfolio Development III

#### *Required Assessment*

- \_\_ Missouri Pre-Service Teacher Assessment
- \_\_ Ethics Case Study

Areas Required for Certification	Courses Required at Saint Louis University
History, Nature, & Philosophy of Science and Technology (3)	__ EDI 4280 Educational Inquiries into the History, Nature, and Philosophy of Science & Technology (3)
Principles of Biology (8)	__ BIOL 1240 Principles of Biology I (4) ( <i>offered in Fall</i> ) __ BIOL 1260 Principles of Biology II (4) ( <i>offered in Spring</i> )
Cell Biology (3)	__ BIOL 3020 Biochemistry & Molecular Biology (3) ( <i>Prerequisites: BIOL 104 and BIOL 106 and CHEM 163 &amp; 164.</i> )
Plant Structure & Function (4)	__ BIOL 3260 Biology of Plants & Fungi (4)
Genetics (3)	__ BIOL 3030 Principles of Genetics (3) ( <i>Prerequisites: BIOL 302 OR CHEM 464</i> )
Evolution (3)	__ BIOL 3010 Evolutionary Biology (3)
General Science (12-14)	__ CHEM 1110 General Chemistry I (3) ( <i>Prerequisites: CHEM 093 or CHEM 1050 (C- minimum grade) or CHEM 1060 (C- minimum grade) and MATH 1200 or Math index minimum score of 930</i> ) __ CHEM 1115 General Chemistry I Lab (1) __ PHYS 1130 Astronomy (3) OR PHYS 1220 General Physics I (4) __ EAS 1010 Earth and Atmospheric Science (3) __ EAS 1080 Environmental Science (3)
<b><i>To complete the major in Biology...</i></b> (meet with Biology Faculty member to discuss Biology major in more detail)	*** <u>Common Courses include the following, but it is recommended you meet with a faculty member in Biology to discuss the 2<sup>nd</sup> major in Biology!</u>  __ BIOL 3040 Cell Structure and Function (3) ( <i>Offered in Spring; Prerequisite: BIOL-302 or CHEM-462; Co-requisite: CHEM-343/345.</i> ) __ BIOL 4750 General Ecology (4) ( <i>offered in Fall</i> ) __ BIOL Elective (300/400 level) (3) __ BIOL Elective (300/400 level) (3) __ BIOL 4950 (Senior Residency) (0) __ CHEM 1120 General Chemistry II (3) __ CHEM 1125 General Chemistry II Lab (1) __ CHEM 2430 Organic Chemistry I (3) ( <i>Offered in Fall</i> ) __ CHEM 2415 Organic Chemistry Lab I (1) __ CHEM 2440 Organic Chemistry II (3) ( <i>Offered in Spring</i> ) __ CHEM 2425 Organic Chemistry Lab II (1)