

**BioEd Planning Worksheet: B.S., Biological Sciences, Biology Education Specialization (124-127 hours)**  
AY 2015-2016

Student Name: \_\_\_\_\_ Email: \_\_\_\_\_

Phone: \_\_\_\_\_ Matriculation Date: \_\_\_\_\_

Faculty Mentor: \_\_\_\_\_ Home Dept. \_\_\_\_\_

**University Core Curriculum** (see Undergraduate Catalog for list of course options): 39-41 hours

**Foundation Skills**

Composition (6 hours)

ENGL 101

ENGL 102

Speech Communication (3 hours)

CMST 101

University College (1-3 hours)

UCOL 101

Mathematics (3 hours)

MATH 109 [3]

**Disciplinary Studies**

Fine Arts (3 hours)

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Science (6 hours)

Group I

CHEM 200, 201, 202 [3]

Group II

BIOL 200A [3]

Human Health (2 hours)

PHSL 201 and 208 [2]

Humanities (6 hours)

PHIL 307i [3]

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Social Science (6 hours)

PSYC 102 [3]

EDUC 314 [3]

**Integrative Studies**

Multicultural (3 hours)

EDUC 311 [3]

Biology Education majors must complete a laboratory safety workshop and an online animal care module prior to student teaching. Contact the program coordinator or visit the Biological Sciences website for details.

**Requirements for the Biological Sciences Major (Biology Education Track):** 55-56 hours

**Biology Core:** 24-25 (+5) hours

- BIOL 200A Cell and Molecular Biology, Genetics and Evolution [1(+3)]
- BIOL 200B Organismal and Ecological Biology [4]
- BIOL 304 Evolution [3]
- BIOL 305 Principles of Genetics [3]
- BIOL 306 Cell Biology [3]
- BIOL 307 Principles of Ecology [3]
- PHSL 201 Human Physiology *and* 208 Laboratory Experiences in Physiology [2(+2)]
- MICR 301 Principles of Microbiology or PLB 300 Diversity of Plants, Algae and Fungi *or* ZOO 220 Animal Diversity [4-5]
- BIOL 485 *or* MICR 495 *or* PHSL 490 *or* PLB 480 *or* ZOO 482 Senior Seminar [1]

**Physical Sciences:** 22 (+3) hours

Chemistry: 7 (+3) hours

- CHEM 200 Intro. Chemical Principles [1(+3)]     CHEM 201 General Chemistry Lab I [1]
- CHEM 210 General & Inorganic Chem. [4]     CHEM 211 General Chemistry Lab II [1]

Geology (choose **one** of the following options): 4 hours

- GEOL 220 and 223 The Dynamic Earth and lab, *or* GEOL 221 and 224 Earth Through Time and lab, *or* GEOL 222 and 223 Environmental Geology and lab

Astronomy and Physics: 11 hours

- PHYS 103 Astronomy [3]
- PHYS 203A and 253A College Physics A [4]     PHYS 203B and 253B College Physics B [4]

**Mathematics** 0(+3) hours

- MATH 109 Trigonometry and Analytic Geometry [0(+3)]

**Statistics:** 3 hours

- QUAN 402 Basic Statistics *or* MATH 282 Intro. to Statistics *or* PLB 360 Intro. Biostatistics [3]

**Life Science Electives:** 6 hours of 400-level electives in **BIOL**, MICR, PHSL, PLB, or ZOO [6] (prereqs apply)

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**Requirements of the Teacher Education Program:** 30 hours

**Curriculum and Instruction:** 6 hours

- CI 360 Teaching Reading and Writing in the Secondary Content Areas [3]
- CI 468 Science Methods for Middle and Senior High Schools [3]

**Professional Education Sequence:** 24 hours (order: 314>311>313/301>319/302>308/303>401A)

- EDUC 301 Clinical I Reflective Instructional Practices [1]
- EDUC 302 Clinical II Methods of Instructional Practices [1]
- EDUC 303 Clinical III Advanced Instructional Practices [1]
- EDUC 308 Characteristics and Methods for Teaching Exceptional Children [3]
- EDUC 311 Diversity in Education [0(+3)]
- EDUC 313 Introduction to Reflective Teaching Practice [3]
- EDUC 314 Human Growth, Development, and Learning [0(+3)]
- EDUC 319 Language and Learning [3]
- EDUC 401A Student Teaching [12]