

BSE REQUIREMENTS: LIFE/EARTH SCIENCE CONCENTRATION

Name _____

ID# _____

I. REQUIRED "MAJOR" COURSES

REQUIRED BIOLOGY COURSES (20 hrs):

- ___BIOL 1440 Biology I #*
- ___BIOL 1441 Biology II *
- ___BIOL 2490 Genetics *
- ___BIOL 3403 Ecology
- ___BIOL 4415 Evolution

BIOLOGY ELECTIVES (8 hours from the following)

One of the following courses:

- ___BIOL 4401 Invertebrate Zoology
- OR-
- ___BIOL 3410 Vertebrate Zoology
- AND-

One of the following courses:

- ___BIOL 4404 Plant Taxonomy
- OR-
- ___BIOL 4470 Biology Seed Plants

EARTH SCIENCE (11 hours)

- ___PHYS 1401 Descriptive Astronomy
- ___SCI 3410 Earth Science
- ___GEOG 1305 Principles of Geography**

II. REQUIRED EDUCATION COURSES

- ___ EDUC 1300 Education as a Profession
- ___ EDUC 1240 Basic Educational Technology Skills***
- ___ MSIT 3310 Development and Learning
- ___ EDUC 3309 Cultural Perspectives: Family, School, Community Partnerships

Admission to teacher education required for the following professional education courses:

- ___ EDUC 3321 Intro Strategies for Students with Diverse Learning Needs
- ___ EDUC 4210 Integration of Technology
- ___ MSIT 4305 Classroom management
- ___ MSIT 4321 Curriculum Planning & Assessment
- ___ MSIT 4325 Literacy Development
- ___ SCI 4190 Internship I
- ___ SCI 4400 Secondary Science Methods
- ___ SCI 4680 /4681 Internship II

III. REQUIRED SUPPORTING COURSES

CHEMISTRY (12 hrs)

- ___CHEM 1450 College Chemistry I*
- ___CHEM 1451 College Chemistry II*
- ___CHEM 2401 Organic Chemistry I

PHYSICS (8 hrs)

- ___PHYS 1410 College Physics I*
- ___PHYS 1420 College Physics II

MATHEMATICS (6-8 hrs)

Option A Recommended

- ___MATH 1580 Algebra and Trigonometry*
- AND-
- ___MATH 2311 Statistical Methods I

-OR-

Option B

- ___MATH1390 College Algebra*

-AND-

- ___MATH 2311 Statistical Methods I

Graduation Requirements for the B.S. with a concentration in Life/Earth Science requires successful completion of a minimum of 133 hours, which must include 40 hours of upper division (3000-4000 level) and the General Education requirements outlined on the opposite side.

Teacher Licensure: A student with a B.S. degree in Biology who is interested in obtaining teaching licensure in life science/earth science should contact the science education advisor in the Department of Biology (450-3146) or the Chair of the Department of Middle/Secondary Education and Instructional Technologies at (450-3177).

If composite ACT is below 21, then BIOL 1400 with a C or better AND CHEM 1301 OR CHEM 1450 with a C or better is a prerequisite for enrollment in BIOL 1440.

* A "C" or better grade is or may be required for advancement to subsequent courses.

** Also a General Education Requirement

*** Only required if the competency exam is not passed

NOTE: A 2.5 GPA minimum must be maintained both cumulatively and in all "major" courses. Additionally, students must earn a "C" or higher in all "major" courses. These requirements must be met before students can participate in Internship II: SCI 4680 and SCI 4681.