

## 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.