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

- _MATH 1390_ 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 BIOI 1400 with a C or better AND CHEM 1301 OR CHEM 1450 with a C or better is a prerequisite for enrollment in BIOI 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.

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