## Requirements for BSE: Physical Science/Earth Science Concentration

**Name ___________________________________**  
**I.D. # _______________________________**

### REQUIRED PHYSICS COURSES (18 hrs)
- PHYS 1441 University Physics 1
- PHYS 1442 University Physics 2
- PHYS 2443 University Physics 3
- PHYS 3110 Junior Laboratory 1
- PHYS 3120 Junior Laboratory 2
- PHYS 4110 Senior Laboratory
- PHYS 4360 Physics for Secondary Teachers

### PHYSICS ELECTIVE (3 hrs from the following)
- PHYS 3342 Mechanics OR
- PHYS 3343 Thermal Physics

### REQUIRED CHEMISTRY COURSES (12 hrs)
- CHEM 1450 College Chemistry I
- CHEM 1451 College Chemistry II
- CHEM 2401 Organic Chemistry I

### CHEMISTRY ELECTIVE (4-5 hrs from the following)
- CHEM 3411 Organic Chemistry II OR
- CHEM 3520 Quantitative Analysis

### MATHEMATICS COURSES (13 hours)
- MATH 1591 Calculus I
- MATH 1592 Calculus II
- MATH 2371 Calculus III

### EARTH SCIENCE COURSES (11 hrs)
- PHYS 1401 Descriptive Astronomy
- SCI 3410 Earth Science
- GEOG 1305 Geography

### BIOLOGICAL SCIENCE (4 hours)
- BIOL 1440 Principles of Biology I

### SECONDARY EDUCATION REQUIREMENTS
- EDUC 1300 Education as a Profession
- EDUC 1240 Basic Educational Technology Skills (only required if Technology Competency Test is not passed)
- MSIT 3310 Development and Learning
- EDUC 3309 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
- MSIT 4305 Classroom Management
- SCI 4400 Secondary Science Methods
- MSIT 4321 Curriculum Planning & Assessment
- MSIT 4325 Literacy Development
- EDUC 4210 Integration of Technology into Teaching and Learning
- SCI 4190 Internship-I
- SCI 4680 Internship-II
- SCI 4681 Internship-II

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**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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(The Bachelor of Science Education with the Physical Science/Earth Science Concentration requires successful completion of a minimum of 133 hours, including the General Education requirements.)

10/11/2010