

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

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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

**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.**

### 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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(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.)