

# SECONDARY EDUCATION: EARTH SCIENCE BA/BS

## Program Requirements

Secondary certification candidates must meet the graduation requirements for their major and the Secondary Teacher Education Program and must have two advisors. (see below)

| Code                                                                    | Title                                      | Credits            |
|-------------------------------------------------------------------------|--------------------------------------------|--------------------|
| <b>Earth Science Program</b>                                            |                                            |                    |
| CHEM-112                                                                | PRINCIPLES OF CHEMISTRY II                 | 4.00               |
| GEOL-101                                                                | PHYSICAL GEOLOGY                           | 4.00               |
| or GEOL-120                                                             | INTRODUCTION TO EARTH SYSTEMS              |                    |
| GEOL-202                                                                | HISTORICAL GEOLOGY                         | 4.00               |
| GEOL-313                                                                | EARTH MATERIALS I                          | 4.00               |
| GEOL-314                                                                | EARTH MATERIALS II                         | 4.00               |
| GEOL-450                                                                | EARTH SYSTEMS CAPSTONE                     | 3.00               |
| MATH-170                                                                | CALCULUS I (Required if not taken as core) |                    |
| PHYS-205                                                                | DESCRIPTIVE ASTRONOMY                      | 4.00               |
| PHYS-112                                                                | GENERAL PHYSICS II                         | 4.00-5.00          |
| or PHYS-212                                                             | PHYSICS FOR SCIENTISTS AND ENGINEERS II    |                    |
| <b>Selectives</b>                                                       |                                            |                    |
| Select from any GEOL or GIS courses numbered 200 or higher <sup>1</sup> |                                            | 4.00               |
| Select from any GEOL course numbered 300 or higher                      |                                            | 7.00               |
| <b>Secondary Education Certificate</b>                                  |                                            |                    |
| See Secondary Education Certificate Requirements below                  |                                            |                    |
| <b>Total Credits</b>                                                    |                                            | <b>42.00-43.00</b> |

<sup>1</sup> See Catalog section "Teacher Education Division: Secondary Teacher Certification" regarding certification requirements for this major. Selective course choices could be affected

## Secondary Education Certificate Requirements

Application for admission to the Teacher Education Program is required after successful completion of the first three Phase I courses.

| Code                                                   | Title                                                           | Credits      |
|--------------------------------------------------------|-----------------------------------------------------------------|--------------|
| <b>Phase I - Professional Foundations of Education</b> |                                                                 |              |
| ED-214                                                 | PRINCIPLES OF EDUCATION <sup>1</sup>                            | 3.00         |
| ED-224                                                 |                                                                 | 2.00         |
| ED-318                                                 | ASSESSMENT OF LEARNING <sup>1</sup>                             | 3.00         |
| ED-321                                                 | EDUCATIONAL PSYCHOLOGY <sup>1</sup>                             | 3.00         |
| ED-345                                                 | CULTURALLY RELEVANT TEACHING                                    | 3.00         |
| SE-322                                                 | INCLUSION STRATEGIES K-12 (may be taken in Phase I or Phase II) | 3.00         |
| <b>Phase II - Professional Studies in Education</b>    |                                                                 |              |
| ED-424                                                 |                                                                 | 2.00         |
| ED-445                                                 | INSTRUCTIONAL STRATEGIES AND CLASSROOM MANAGEMENT, 6-12         | 3.00         |
| ED-447                                                 | TEACHING METHODS IN THE CONTENT AREA                            | 2.00         |
| RE-309                                                 | DISCIPLINARY LITERACY                                           | 3.00         |
| <b>Phase III - Instructional Methods in Education</b>  |                                                                 |              |
| ED-452                                                 | INTERNSHIP SEMINAR                                              | 1.00         |
| ED-460                                                 | PROFESSIONAL INTERNSHIP IN EDUCATION 6-12                       | 12.00        |
| <b>Total Credits</b>                                   |                                                                 | <b>40.00</b> |

<sup>1</sup> Additional requirements must be met for teacher certification. See your Teacher Education Division advisor for details.

No grade lower than a "C-" will be accepted in any General Education core, Content Major, or 200-level Professional Foundations course. No grade lower than a "B-" will be accepted in any 300- or 400-level courses in Secondary Education.

A minimum cumulative GPA of 3.0 is required for admission into the Secondary Teacher Education Program. Candidates must also maintain a 3.0 cumulative GPA in their content area classes.

Graduates with a BA/BS in Earth Science: Secondary Education go on to obtain careers in a variety of fields:

- Secondary Earth Science Teacher (6-12)
- Adult and Continuing Education
- Research
- Lab/Field Work
- Training Specialist
- Business and Industry
- Instructional Coach