

# GEOLOGY: SECONDARY TEACHER CERTIFICATION, BS

## Example Plan of Study

### Finish in Four Plan of Study

The plan below is an **example** of how students can successfully complete degree requirements in four years. This suggested class schedule plan may be used as a guide and can be adjusted based on individual needs. Students are required to meet with an academic advisor prior to enrollment each semester to plan their class schedule, and students are ultimately responsible for completing all degree requirements.

| Course  | Title  | Hours     |
|---|--|-----------|
| <b>Freshman</b>                                   |  |           |
| <b>Fall</b>                                       |  |           |
| GEOL 1214<br>or GEOL 1114                         | Introductory Geological Processes (LN)<br>or Physical Geology (LN)   | 4         |
| MATH 2144   | Calculus I (Q)   | 4         |
| NREM 1014<br>or BIOL 1113 <i>and</i><br>BIOL 1111 | Introduction to Natural History (LN)<br>or Introductory Biology (N) <i>and</i> Introductory Biology<br>Laboratory (LN) | 4         |
| SMED 1012   | Inquiry Approaches to Teaching   | 2         |
| <b>Hours</b>                                      |  | <b>14</b> |
| <b>Spring</b>                                     |  |           |
| ASTR 1023   | Stars, Galaxies, Universe (N)  | 3         |
| CHEM 1314   | Chemistry I (LN)   | 4         |
| GEOL 1224   | Evolution of the Earth (LN)  | 4         |
| General Education courses                         |  | 4         |
| <b>Hours</b>                                      |  | <b>15</b> |
| <b>Sophomore</b>                                  |  |           |
| <b>Fall</b>                                       |  |           |
| GEOL 2464   | Rocks and Minerals   | 4         |
| GEOL 2773   | Introduction to Planetary Geology (N) (every other year)   | 3         |
| CHEM 1515   | Chemistry II (LN)  | 5         |
| Major, College, and General Education courses     |  | 3         |
| <b>Hours</b>                                      |  | <b>15</b> |
| <b>Spring</b>                                     |  |           |
| GEOG 3023   | Climatology (N)  | 3         |
| PHYS 1114<br>or PHYS 2014                         | College Physics I (LN)<br>or University Physics I (LN)   | 4         |
| SMED 3013   | Knowing and Learning in K-12 Education   | 3         |
| GEOL 3034   | Principles of Stratigraphy and Sedimentology   | 4         |
| Major, College, and Elective courses              |  | 2         |
| <b>Hours</b>                                      |  | <b>16</b> |
| <b>Junior</b>                                     |  |           |
| <b>Fall</b>                                       |  |           |
| CIED 3313<br>GEOL 2773                            | Field Experience in the Secondary Schools<br>Introduction to Planetary Geology (N) (if needed)                         | 3         |
| GEOL 4503   | Introduction to Oceanography (N)   | 3         |
| PHIL 3933   | Creation and Evolution (August Pre-Session only)   | 3         |
| PHYS 1214<br>or PHYS 2114                         | College Physics II (LN)<br>or University Physics II (LN)   | 4         |
| SPED 3202   | Educating Exceptional Learners   | 2         |
| <b>Hours</b>                                      |  | <b>15</b> |
| <b>Spring</b>                                     |  |           |
| CIED 4133   | Introduction to K-12 English Language Learners   | 3         |
| GEOL 3503   | Environmental Geology (N)  | 3         |
| SMED 4611   | Authentic Research in the Science Classroom  | 1         |

|                                      |   |            |
|--------------------------------------|---|------------|
| SMED 4613                            | Teaching the Nature of Science Through an Inquiry Approach    | 3          |
| General Education course & Electives |   | 6          |
| <b>Hours</b>                         |   | <b>16</b>  |
| <b>Senior</b>                        |   |            |
| <b>Fall</b>                          |   |            |
| GEOL 3014                            | Structural Geology  | 4          |
| SMED 4023                            | Advanced Field Placement in Mathematics and Science           | 3          |
| SMED 4713                            | Teaching and Learning Science in the Secondary School         | 3          |
| Major, College, and Elective courses |   | 6          |
| <b>Hours</b>                         |   | <b>16</b>  |
| <b>Spring</b>                        |   |            |
| CIED 4720                            | Internship in the Secondary Classroom                         | 6          |
| SMED 4723                            | Senior Seminar in Secondary Mathematics and Science Education | 3          |
| Major, College and Elective Courses  |   | 4          |
| <b>Hours</b>                         |   | <b>13</b>  |
| <b>Total Hours</b>                   |   | <b>120</b> |