

**Southern Illinois University Edwardsville**  
**BACHELOR OF SCIENCE - EARTH and SPACE SCIENCE**  
 Secondary Education Certification: Grades 6-12

This guide provides only a suggested course of study and should be used in consultation with an adviser and the SIUE Undergraduate Catalog available online at [www.siu.edu/registrar/](http://www.siu.edu/registrar/).

YEAR	FALL	SPRING
1	CHEM 121a General Chemistry I (Intro NSM) 4 CHEM 125a General Chemistry Lab I 1 ENG 101 English Composition I 3 IME 106 (recom), PHIL 106, or MATH 106 3 MATH 150 Calculus I (Intro NSM) 5 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 16	BIOL 120 Animal Systems 4 CHEM 121b General Chemistry II (Dist NSM) 4 CHEM 125b General Chemistry Lab II 1 ENG 102 English Composition II 3 PSYC 111 Found of Psyc (recom Intro SS) 3 SPC 103 Interpersonal Comm. (IGR)^ 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 18
2	BIOL 121 Plant Systems 4 CI 200 Introduction to Education 2 ESCI 111 Intro to Phys Geology & Geography 3 PHYS 206a College Physics I 5 STAT 244 Statistics 4 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> <b>Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program</b> 18	CHEM 241a Organic Chemistry 3 ENG 111 Intro to Lit (recom Intro FAH) 3 GEOG 210 Physical Geography 3 PHYS 206b College Physics II 5 PHYS 356 Astronomy 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17
3	BIOL 319 Cell and Molecular Biology* 4 GEOG 202 Resource Use and Management 3 GEOG 211 Meteorology 3 PHYS 366 Space Physics* 3 Intro Fine Arts & Hum or Intro Social Sciences 3 IS 364 The Atomic Era (II/IC)* 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 19	GEOG 314 Climatology 3 PHYS 434 Instruct Strategies for Astronomy 3 SCI 451 Integrated Science# 3 Science ELECTIVE 3 Dist Fine Arts & Humanities 3 Dist Social Sciences 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 18
4	CHEM 494 or PHYS 494* Methods of Teaching Chemistry or Physics in Sec Schools 3 CI 315a Methods for Teaching in Sec Schools 2 CI 440 Teaching Reading in Sec School+ 3 EPFR 315 Educational Psychology 3 EPFR 320 Foundations of Education in a Multicultural Society 3 SPE 400 Exceptional Child 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17	CI 315b Methods for Teaching Sec Schools 2 CI 352 Student Teaching 10 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 12

- ^ If SPC 104 or 105 is taken instead of SPC 103, then a course from the list of Intergroup Relations courses in the current SIUE catalog must also be taken.
- + It is preferable to complete CI 440 *prior* to student teaching; however, if necessary, it is possible to take CI 440 during the semester in which student teaching is done.
- \* Course offered only during Fall Semester.
- # Course offered only during Spring Semester and occasionally during Summer Semester.

Students may elect to take courses during the summer term to lessen the academic load.

Declaring an Earth and Space Science Education Major: In order to declare a major in Earth and Space Science, it is necessary to have:

1. Completed all Academic Development courses required by the University;
2. Completed any required courses to address high school deficiencies;
3. A cumulative grade point average of 2.0 (on a 4.0 scale).

In order to be admitted into the teacher certification program, students must:

1. Receive a grade of C or above in ENG 101 and ENG 102;
2. Complete 43 semester hours of course credit and have a cumulative grade point average of 2.5 or higher (this includes work at other institutions);
3. Successfully complete the introductory course CI 200;
4. Pass the ICTS Basic Skills Test. Information about this test is available at: [www.icts.nesinc.com](http://www.icts.nesinc.com).

For further information concerning Earth and Space Science requirements, contact the Physics Department, SL 2331, 650-2472.

For additional information concerning teacher certification, consult Pamela Feters (last names A-K) or Elaine Farrar (last names L-Z), FH 1110, 650-3940.