

**Southern Illinois University Edwardsville**  
**BACHELOR OF SCIENCE – BIOLOGICAL SCIENCES**  
 Secondary Education Certification: Grades 6-12++

This guide provides only a suggested course of study and should be used in consultation with an advisor 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 MATH 125 Pre-Calc Math (Intro NSM) 3 ENG 101 English Composition I 3 PHIL 106, MATH 106, or FL 106 3 Intro Fine Arts & Humanities 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 17	BIOL 150 Intro to Biological Systems I 4 CHEM 121b General Chemistry II (Dist NSM) 4 CHEM 125b General Chemistry Lab II 1 PSYC 111 Foundations of Psyc (Intro SS) 3 ENG 102 English Composition II 3 STAT 244 (recom), STAT 107, or CMIS 108 3-4 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 18-19
2	BIOL 151 Intro to Biological Systems II 4 CHEM 241a Organic Chemistry I 3 GEOG 210 Physical Geography 3 SPC 103 Interpersonal Communication (IGR)+ 3 Intro Fine Arts & Hum or Social Sci 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16	BIOL 220 Genetics 4 CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 CI 200 Introduction to Education 2 Dist Social Sciences 3 Dist Fine Arts & Humanities 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 17 <b>Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program</b>
3	BIOL 365 Ecology (II/IC) 4 BIOL Cellular & Molecular Elective* 3-4 PHYS 131a College Physics I^ 5 SPE 400 The Exceptional Child 3 Interdisciplinary Studies (IS) 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 18-19	BIOL 327 Evolution 3 BIOL Animal Physiology Elective** 3-4 BIOL 400 level Elective (with lab) 4 PHYS 131b College Physics II^ 5 SCI 451 Integrated Science 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 18-19 <b>Apply Early this Semester for CI 315a</b>
4	BIOL 492 Colloquium I 1 BIOL 494 Methods of Teaching Biology 3 BIOL 400 level Elective (with lab) 4 CI 315a Methods of Teaching in Sec Schools 2 CI 440 Teaching Reading in the Sec School# 3 EPFR 315 Educational Psychology 3 EPFR 320 Foundations of Education in a Multicultural Society 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 19	BIOL 492m Colloquium II or BIOL 497 Senior Assignment 1 CI 315b Methods of Teaching in Sec Schools 2 CI 352b Secondary Student Teaching - Biology 10 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 13

^ PHYS 151/151L and PHYS 152/152L may be substituted for PHYS 131a and PHYS 131b. PHYS 151/151L, University Physics I, has a prerequisite or corequisite of MATH 152, Calculus II.

+ If SPC 105 is taken instead of SPC 103, then a course from the list of Intergroup Relations in the current SIUE catalog must also be taken.

\* Select from BIOL 319, 337, 415, 416, or 455.

\*\* Select from BIOL 340, 380, 467, or 489 or 240a and 240b.

# 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.

++ Adding a Middle School Endorsement: To be certified to teach middle school (grades 6-8), student must take two additional education courses, EPFR 415, Middle School Learner, and CI 707, Middle & Junior High School. Please see an OCECA advisor for the appropriate placement of these courses into the curriculum.

**Note:** Students are required to take 38 hours of Biological Sciences courses.

**Students may need to take courses during the summer term to lessen their academic load.**

*Note: Students seeking secondary education certification after February 2012 must have grades of C or higher in all general education, major content, and professional education courses. Grades of D are no longer accepted by the Illinois State Board of Education for certification purposes.*

Students may choose to earn a Bachelor of Arts (BA), which includes the courses listed above and 2 semesters of the same foreign language.

**Declaring a Biology Education Major:** To declare a Biology Education major, 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 minimum grade point average of 2.0 in science and mathematics courses completed as well as a cumulative grade average of at least 2.0 or higher (on a 4.0 scale) in all courses taken at SIUE.
4. Transfer student are required to have at least a 2.0 GPA in science and math course taken at other institutions.

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 the biology requirements, contact the Biology Department, SL 3300, 650-3927, or CAS Undergraduate Advising, PH 1315, 650-5525.

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