

**Southern Illinois University Edwardsville**  
**BACHELOR OF SCIENCE - CHEMISTRY**  
 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 4 CHEM 125a General Chemistry Lab I 1 ENG 101 English Composition I 3 IME 106 (recommended), PHIL 106, or MATH 106 3 PSYC 111 (recom, Intro Social Sciences) 3 SPC 103 Interpersonal Comm (IGR)^ 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17	CHEM 121b General Chemistry II 4 CHEM 125b General Chemistry Lab II 1 BIOL 120 Animal Systems (Intro NSM) 4 ENG 102 English Composition II 3 MATH 150 Calculus I (Intro NSM) 5 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17
2	CHEM 241a Organic Chemistry I 3 BIOL 121 Plant Systems 4 MATH 152 Calculus II (Dist NSM) 5 PHYS 211a University Physics I 4 PHYS 212a University Physics Lab I 1 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17	CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 CI 200 Introduction to Education 2 ENG 111 Intro to Lit (recom, Intro FAH) 3 PHYS 211b University Physics II 4 PHYS 212b University Physics Lab II 1 STAT 107, 244, 380, or 480 3-4 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 18-19 <b>Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program</b>
3	CHEM 331 Quant Analytical Chemistry 3 CHEM 335 Analytical Chemistry Lab 1 CHEM 361a Physical Chemistry 3 CHEM 365a Physical Chemistry Lab 2 CHEM 451a Biochemistry 3 Dist Social Sciences 3  Note: GEOG 210-3 is recommended, but not a required course.	CHEM ELECTIVE** 3 GEOG 111 Intro Geog (recom, Intro SS, IC) 3 IS 335, 336, 363, or 364 (recommended) 3 SCI 451 Integrated Science 3 Dist Fine Arts & Humanities 3  Note: PHYS 356-3 is recommended, but not a required course.
	<hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15 (18)	<hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 15 (18) <b>Apply for Student Teaching by end of Week 2 (See OCECA Office)</b>
4	CHEM 494 Second Chem Teaching Methods 3 CI 315a Methods of Teaching in Sec Sch 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 The Exceptional Child 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17 <b>Must pass Content Test before Student Teaching</b>	CHEM 499 Senior Assignment 0 CI 315b Methods of Teaching in Sec Sch 2 CI 352 Student Teaching - Secondary 10 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 12 <b>Must pass APT Test before Graduation</b>

^ 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.

\*\* Must be CHEM course numbered 300 or above. CHEM 451b is highly recommended.

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

Declaring a Chemistry Major: In order to declare a major in Chemistry, 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 2.4 in science and mathematics courses completed as well as a cumulative grade point average of 2.5 or higher in all courses taken at SIUE as well as at other institutions.

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

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

For further information concerning chemistry requirements contact the Chemistry Department, SL Room 2306, 650-2042.

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