

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 advisor and the SIUE Undergraduate Catalog, available online at 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 Founds of Psyc (recom, Intro SS) 3 SPC 103 Interpersonal Comm (IGR)^ 3 <hr style="width: 10%; 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: 10%; 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 151 University Physics I 4 PHYS 151L University Physics Lab I 1 <hr style="width: 10%; 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 152 University Physics II 4 PHYS 152L University Physics Lab II 1 STAT 107, 244, 380, or 480 3-4 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 18-19 Complete ICTS Basic Skills Test for Admission to the Teacher Cert. Program
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. <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 15 (18)	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 118-3 is recommended, but not a required course. <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 15 Apply for Student Teaching by end of Week 2 (See OCECA Office) (18)
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: 10%; margin-left: auto; margin-right: 0;"/> 17 Must pass Content Test before Student Teaching	CHEM 499 Senior Assignment 0 CI 315b Methods of Teaching in Sec Sch 2 CI 352 Student Teaching - Secondary 10 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 12 Must pass APT Test before Graduation

^ 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. To have completed all Academic Development courses required by the University;
2. To have completed any required courses to address high school deficiencies;
3. To have successfully completed CHEM 121a, 125a or the equivalent courses with grades of C or better;
4. To have 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 (on a 4.0 scale) in all courses taken at SIUE;
5. For transfer students to have a 2.6 GPA in science and math courses taken at other institutions and a 2.5 overall average in other transferable work.

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;
2. 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.

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.

11/24/09