

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 MATH 150 Calculus I (Intro NSM) 5 ENG 101 English Composition I 3 IME 106 (recommended), PHIL 106, or MATH 106 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 16	CHEM 121b General Chemistry II# 4 CHEM 125b General Chemistry Lab II 1 BIOL 150 Intro to Biol Systems I (Intro NSM) 4 MATH 152 Calculus II (Dist NSM) 5 ENG 102 English Composition II 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 17
2	CHEM 241a Organic Chemistry I 3 BIOL 151 Intro to Biological Systems II 4 PHYS 151/151L University Physics I or PHYS 131a College Physics I 5 PSYC 111 Founds of Psyc (recom, Intro SS) 3 SPC 103 Interpersonal Comm (IGR)^ 3 <hr style="width: 20%; margin-left: auto; margin-right: 0;"/> 18	CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 CI 200 Introduction to Education 2 PHYS 152/152L University Physics II or PHYS 131b College Physics II 5 STAT 107, 244, or 380 3-4 ENG 111 Intro to Lit (recom, Intro FAH) 3 <hr style="width: 20%; 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 Quant Analytical Chem 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: 20%; margin-left: auto; margin-right: 0;"/> 15 (18)	CHEM ELECTIVE* 3 SCI 451 Integrated Science 3 GEOG 111 Intro Geog (recom, Intro SS, IC) 3 IS 335, 336, 363, or 364 (recommended) 3 Dist Fine Arts & Humanities 3 Note: PHYS 118-3 is recommended, but not a required course. <hr style="width: 20%; 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: 20%; 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: 20%; margin-left: auto; margin-right: 0;"/> 12 Must pass APT Test before Graduation

Grades of C or higher in CHEM 121a & 121b are required of all students before proceeding into any Chemistry courses numbered above 199.

^ 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.

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

** 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.

Students may elect to take courses during the summer 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.

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 2325, 650-2042, or CAS Undergraduate Advising, PH 1315, 650-5525.

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