

Southern Illinois University Edwardsville
BACHELOR OF SCIENCE - CHEMISTRY: ACS

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 SPC 103 Interpersonal Communication or SPC 105 Public Speaking* 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16	CHEM 121b General Chemistry II [^] 4 CHEM 125b General Chemistry Lab II 1 MATH 152 Calculus II 5 ENG 102 English Composition II 3 PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16
2	CHEM 241a Organic Chemistry I 3 CHEM 331 Quant Analytical Chemistry 3 CHEM 335 Quant Analytical Chem Lab 1 PHYS 151 Univ Physics I (Intro NSM) 4 PHYS 151L University Physics I Lab 1 Intro Fine Arts & Humanities 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 15	CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 PHYS 152 Univ Physics II (Dist NSM) 4 PHYS 152L University Physics Lab II 1 CS 140 or STAT 107, 244, or 380 3-4 Intro Social Sciences 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16-17
3	CHEM 361a Physical Chemistry 3 CHEM 365a Physical Chemistry Lab 2 CHEM 451a Biochemistry 3 Intro Fine Arts & Hum or Intro Soc Sci 3 Dist Fine Arts & Humanities 3 Interdisciplinary Studies (IS) 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 17	CHEM 361b Physical Chemistry 3 CHEM 365b Physical Chemistry Lab 1 Dist Social Sciences 3 Intergroup Relations (IGR)+ 3 ELECTIVE 3 ELECTIVE 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 16
4	CHEM 411 Inorganic Chemistry 3 CHEM 415 Inorganic Chemistry Lab 2 CHEM ELECTIVE# 3 ELECTIVE 3 ELECTIVE 3 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 14	CHEM 431 Instrumental Analysis 3 CHEM 435 Instrumental Analysis Lab 1 CHEM 499 Senior Assignment 0 CHEM ELECTIVE## 2 Internat'l Issues/Internat'l Culture (II/IC)+ 3 ELECTIVE 3 ELECTIVE 2 <hr style="width: 100px; margin-left: auto; margin-right: 0;"/> 14

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

* SPC 103 recommended (also satisfies Intergroup Relations requirement).

+ Course taken to fulfill this requirement may also satisfy another General Education requirement. Refer to the SIUE Undergraduate Catalog for a list of approved courses.

Choose from CHEM 419, 439, 441, 444, 449, 451b, 459, 469, 471, or 479.

Choose from CHEM 345, 396, 455, or 496.

About ACS:

The American Chemical Society (ACS) is a self-governed individual membership organization that consists of members at all degree levels and in all fields of chemistry. The organization provides a broad range of opportunities for peer interaction and career development, regardless of professional or scientific interests.

This academic curriculum meets the guidelines of the American Chemical Society (ACS) for the training of professional chemists. All graduates will be certified by the ACS.

Declaring a Chemistry: ACS Major: To declare a major in Chemistry: ACS, it is necessary:

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 CHEM121a, 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 at least 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.

Note: Students who do not meet the GPA requirements may be provisionally accepted and will receive advisement. See the Chemistry Department for more information.

For further information contact the Chemistry Department, SL 2325, 650-2042, or CAS Undergraduate Advising, PH 1315, 650-5525.