

Southern Illinois University Edwardsville
BACHELOR OF SCIENCE - BIOCHEMISTRY: 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 Intersp Comm (recom; IGR)+ 3 <hr style="width: 10%; 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 4 MATH 152 Calculus II (Dist NSM) 5 ENG 102 English Composition II 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 17
2	CHEM 241a Organic Chemistry I 3 CHEM 331 Quant Analytical Chemistry 3 CHEM 335 Quant Analytical Chem Lab 1 BIOL 151 Intro to Biological Systems II 4 PHYS 151 University Physics I (Intro NSM) 4 PHYS 151L University Physics Lab I 1 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 16	CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 BIOL 220 Genetics 4 PHYS 152 University Physics II 4 PHYS 152L University Physics Lab II 1 PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning+ 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 17
3	CHEM 361a Physical Chemistry 3 CHEM 365a Physical Chemistry Lab 2 CHEM 451a Biochemistry 3 BIOL 319 Cell & Molecular Biology 4 Intro Fine Arts & Humanities* 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 15	CHEM 361b Physical Chemistry 3 CHEM 365b Physical Chemistry Lab 1 CHEM 396 Introduction to Research 2 CHEM 451b Biochemistry 3 CHEM 455 Experimental Methods in Biochem Intro Social Sciences* 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 14
4	CHEM 411 Inorganic Chemistry 3 CHEM 415 Inorganic Chemistry Lab 2 CHEM 459 Special Topics in Biochem 3 CHEM 496 Chemical Problems 2 CS 140 <i>or</i> STAT 107, 244, or 380 3-4 Intro Fine Arts & Hum <i>or</i> Intro Soc Sci* 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 16-17	CHEM 431 Instrumental Analysis 3 CHEM 435 Instrumental Analysis Lab 1 CHEM 499 Senior Assignment 0 Dist Fine Arts & Humanities* 3 Dist Social Sciences* 3 Interdisciplinary Studies (IS)* 3 <hr style="width: 10%; margin-left: auto; margin-right: 0;"/> 13

[^] 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. Two semesters of the same foreign language may be taken instead of the Speech Communication and Critical Thinking requirements. The second semester of foreign language meets the International Issues/International Cultures requirement. If foreign language is taken, students would still need to meet the Intergroup Relations (IGR) requirement.

* In order to satisfy the International Issues (II) or International Culture (IC) requirement, ANTH 111b, FL 111a, 111b, 111c, 111d, or 111e, GEOG 111, HIST 111a or 111b, IS 324, 326, 336, 340, 352, 353, 363, 364, 375, or 400, or POLS 111 must be included. If not, an additional course from the list of II/IC in the current SIUE Undergraduate Catalog must also be taken.

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 BioChemistry: ACS Major: To declare a major in BioChemistry: 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 and 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 GPA 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.