

Southern Illinois University Edwardsville
BACHELOR OF ARTS - BIOCHEMISTRY

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 Intro Social Sciences 3 <hr style="width: 50%; 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: 50%; 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 131a College Physics I <i>or</i> PHYS 151/151L Univ Physics I (Intro NSM) 5 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16	CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 BIOL 220 Genetics 4 PHYS 131b College Physics II <i>or</i> PHYS 152/152L Univ Physics II 5 Intro Fine Arts & Humanities 3 <hr style="width: 50%; 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 Foreign Language 101 4 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16	CHEM 451b Biochemistry 3 CHEM 455 Experimental Methods in Biochem 2 CHEM LAB ELECTIVE# 1-2 Foreign Language 102 (IC) 4 Intro Fine Arts & Hum <i>or</i> Intro Soc Sciences 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 13-14
4	CHEM 459 Special Topics in Biochemistry 3 CHEM LECTURE ELECTIVE+ 3 CHEM LAB ELECTIVE# 1-2 CS 140 <i>or</i> STAT 107, 244, or 380 3-4 Dist Fine Arts & Humanities 3 Intergroup Relations (IGR)** 3 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 16-18	CHEM 499 Senior Assignment 0 BIOL ELECTIVE (recommended)* 3-4 Dist Social Sciences 3 Interdisciplinary Studies (IS) 3 ELECTIVE 4 <hr style="width: 50%; margin-left: auto; margin-right: 0;"/> 13-14

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

⁺ Chemistry Lecture Electives - Choose from: CHEM 361b, 411, 419, 431, 439, 444, 449, 471, or 479.

[#] Chemistry Lab Electives - Choose from: CHEM 345, 365b, 396, 415, 435, 455, or 496.

^{*} Additional semester hours from the following courses are recommended: BIOL 335 or 340.

^{**} 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.

Declaring a BioChemistry Major: To declare a major in BioChemistry, 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 CHEM 121a 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.