

**Southern Illinois University Edwardsville**  
**BACHELOR OF SCIENCE - BIOLOGICAL SCIENCES: GENETIC ENGINEERING**

This guide provides only a suggested course of study and should be used in consultation with an adviser and the SIUE Undergraduate Catalog available online at [www.siu.edu/registrar/](http://www.siu.edu/registrar/).

YEAR	FALL	SPRING
1	CHEM 121a General Chemistry I (Intro NSM) 4 CHEM 125a General Chemistry Lab I 1 ENG 101 English Composition I 3 MATH 150 Calculus I (Intro NSM) 5 SPC 103, 104 or 105 Speech Communication 3 <hr style="width: 100%;"/> 16	BIOL 120 Animal Systems 4 CHEM 121b General Chemistry II (Dist NSM) 4 CHEM 125b General Chemistry Lab II 1 ENG 102 English Composition II 3 STAT 244 Statistics 4 <hr style="width: 100%;"/> 16
2	BIOL 121 Plant Systems 4 CHEM 241a Organic Chemistry I 3 PHIL 106 Critical Thinking or MATH 106 Deductive Reasoning 3 Intro Social Sciences 3 Intro Fine Arts & Humanities 3 <hr style="width: 100%;"/> 16	BIOL 220 Genetics 4 CHEM 241b Organic Chemistry II 3 CHEM 245 Organic Chemistry Lab 2 Intro Fine Arts & Hum or Intro Soc Sci 3 ELECTIVE 3 <hr style="width: 100%;"/> 15
3	BIOL 319 Cell & Molecular Biology 3 BIOL ELECTIVE (300-400 level) 3 CHEM 451a Biochemistry I 3 PHYS 131a <i>or</i> PHYS 151/151L+ 5 <hr style="width: 100%;"/> 14	CHEM 451b Biochemistry II 3 PHYS 131b <i>or</i> PHYS 152/152L+ 5 Intergroup Relations (IGR)* 3 ELECTIVE 4 <hr style="width: 100%;"/> 15
4	BIOL 418a Recombinant DNA 3 BIOL 492c Colloquium in Cell & Molecular Biol 1 BIOL 452 Molecular Genetics 3 Interdisciplinary Studies (IS) 3 Dist Fine Arts & Humanities 3 ELECTIVE 3 <hr style="width: 100%;"/> 16	BIOL 418b Recombinant DNA Lab 3 BIOL 492d Colloquium in Cell & Molecular Biol 1 Dist Social Sciences 3 Internat'l Issues/Internat'l Culture (II/IC)* 3 ELECTIVE 3 ELECTIVE 3 <hr style="width: 100%;"/> 16

\* 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.

+ PHYS 151/151L, University Physics I, has a prerequisite or corequisite of MATH 152, Calculus II.

**Declaring a Genetic Engineering Major:** To declare a major in Genetic Engineering, it is necessary to have:

1. Completed all Academic Development courses required by the University;
2. Completed any required courses to address high school deficiencies;
3. A cumulative grade point average of 2.0 in science and mathematics courses completed as well as a cumulative grade point average of at least 2.0 or higher (on a 4.0 scale) in all courses taken at SIUE.

**Note:** In order to declare, transfer students are required to have a 2.0 GPA in science and math courses taken at other institutions.

For further information, contact the Biology Department, SL 3300, 650-3927.