

## Typical Plan of Study for a Biotechnology Major

Courses in our biotechnology curriculum will provide students with a broad foundation in biology and the liberal arts, in-depth knowledge of molecular methodology, and research experience. To graduate, students must successfully complete at least 124 semester hours.

Course No.	Course Title / Category	Sem Hrs	Course No.	Course Title / Category	Sem Hrs
<u>First Semester</u> – 15 hrs			<u>Fifth Semester</u> – 16 hrs		
Biol 123	Living World: Concepts and Connections	4	Biol 334	Cell and Tissue Culture	4
Chem 103	General Chemistry	4	Chem 323	Biochemistry	4
Engl 101	written rhetoric	3	Chem 383	Laboratory in Biochemistry (may instead be taken in spring)	1
Int'l. Lang.	international language course (201 or 121)	3	CS 106	Scientific Computation	4
IDIS 149	Prelude	1	Rel 2xx	biblical/theological foundations II	3
IDIS 110	information technology	1	<u>Interim #3</u>	cross-cultural engagement course	3
<u>Interim #1</u>	DCM (IDIS 150) or international language course (122)	3	<u>Sixth Semester</u> – 17 hrs		
<u>Second Semester</u> – 16 hrs			Biol 325	Biotechnology	4
Biol 224	Cellular and Genetic Systems	4	Biol 324	Molecular Biology (co-listed as Chem 324)	4
Chem 104	General Chemistry	4	Biol 295	Biology Seminar	0
Math 143	Probability and Statistics	4	Rhet. Cult.	rhetoric in culture course	3
Int'l. Lang.	international language course (202 or 123)	3	Lit	literature course	3
PE 101-129	personal fitness course	1	Pers. Comm.	persons in community course	3
<u>Third Semester</u> – 16 hrs			<u>Seventh Semester</u> – 14-15 hrs		
Biol 225	Ecological and Evolutionary Systems	4	Biol 354/385/399	advanced research	4
Chem 253	Fundamentals of Organic Chemistry (or Chem 261)	5	Biol 3XX	upper-level biology course	4
Soc. Struct. NA	societal structures in North America course	3	Hist 151/152	history of the West and world	3
Rel 121/131	biblical/theological foundations I	3	Elective	elective or physics*	3 or 4
PE 130-159	leisure/lifetime course	1	<u>Interim #4</u>	elective (optional)	(3)
<u>Interim #2</u>	elective	3	<u>Eighth Semester</u> – 15-16 hrs		
<u>Fourth Semester</u> – 15-17 hrs			Biol 394/5/6	Perspectives in Biotechnology/Biology/Medicine	3
Biol 250	Research Methodologies and Design	4	Arts	arts course	3
Biol 295	Biology Seminar	0	Glo. Hist.	global historical studies course	3
Math 132	Calculus for Management, Life, and Social Sciences	4	Elective	elective	3
Elective	elective (or Chem 262)	3 - 5	Elective	elective or physics*	3 or 4
Phil 153	philosophical foundations	3			
PE 160-189	skill enhancement course	1			

\* Physics 221-222 is recommended for students who intend to pursue graduate school or medical school.

Color Key: **RED** = biotechnology major requirements  
**BLUE** = liberal arts requirements