



This program roadmap represents one possible pathway to complete the program. **Please see a counselor** to create an education plan that is customized to meet your needs. This roadmap is not a guarantee of course availability or financial aid applicability.

Catalog: 2024-25**GE Pattern:** local AA/AS**Total Units:** 60

First Year

Semester 1

8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	CHEM 309	Integrated General, Organic, and Biological Chemistry	5	IV
GE	HCD 310	College Success	3	IIIb

Semester 2

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	STAT 300	Introduction to Probability and Statistics	4	IIb MC
Req	ENGWR 300	College Composition	3	IIa WC

Second Year

Semester 3

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	BIOL 440 ¹	General Microbiology	4	
RE	ENGWR 302	Advanced Composition and Critical Thinking	3	

¹ BIOL 400 or BIOL 442 can be used in place of BIOL 440, but they have different prerequisites.

Semester 4

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	BIOT 301	Biotechnology and Human Health	3	
GE	POLS 301 / 481 ^H	Introduction to Government: United States	3	Va
GE		any PE activity course	1	IIIa

Third Year

Semester 5

8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	BIOT 307	Biotechnology and Society	2	
GE	BUS 300	Introduction to Business	3	Vb
GE	ART 339	Integrating Digital Media with Traditional Media I	3	I

CAREER PATH

Career Options:

This degree opens the door for entry-level work in the bioscience industry in the areas of research and development, production, clinical testing, and diagnostic work, but many employers require a bachelor's degree or higher. Potential employers include biotechnology and pharmaceutical companies, as well as laboratories in hospitals, government and universities.

Advising Notes:

- This roadmap is designed for students preparing for direct employment. There is another roadmap for students preparing to transfer.
- BIOL 400 or BIOL 442 can be used in place of BIOL 440, but have different prerequisites.

Scheduling Notes:

- BIOT 307 and 311 are offered as 1st-8-week classes.
- BIOT 305 and 312 are offered as 2nd-8-week classes.

Other Notes:

- BIOT 498 is an internship, which must be set up prior to the start of the semester.
- An internship (BIOT 498) is highly recommended as it opens up potential employment opportunities. Students can earn between 0.5 – 4.0 units for related paid or unpaid work experience including volunteer and internship positions through BIOT 498. This course also works toward satisfying

Semester 6

8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
RE	BIOT 305	Introduction to Bioinformatics	1	
Elec	COMM 301	Introduction to Public Speaking	3	
Elec	BIOL 305	Natural History	4	

GE Area IIIb. See the [Work Experience website](#) for more information.

Fourth Year

Semester 7

7 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Req	BIOT 311	Biotechnology Laboratory Methods - Molecular Techniques	2	
Req	BIOT 312	Biotechnology Laboratory Methods - Microbial and Cell Culture Techniques	2	
Elec	BUS 312	Workplace Behavior and Ethics	3	

Semester 8

8 Units

CAT.	COURSE	TITLE	UNIT	GE AREA
Elec	BIOT 498	Work Experience in Biotechnology	2	
GE	HIST 330	Women in American History	3	VI
Elec	ANTH 300 / 480 ^H	Biological Anthropology	3	

^H honors courses

EXPLANATION OF CATEGORIES

RE	Restricted Elective	A course selected from a list of elective courses specified for this program in the course list in the catalog, which can be replaced with another course from the same list
GE	General Education	A course that fulfills a specific general education requirement for a degree, which can be replaced with another course that meets the same requirement
Req	Required Core	A course that is required for this program
Elec	Degree Elective	A degree-applicable course that is part of a degree roadmap to ensure that there is a total of at least 60 units, which is a requirement for an associate degree

Graduation Requirement

A course that fulfills a specific graduation requirement which can be replaced by another course that meets the same graduation requirement.

MC = Math Competency

WC = Writing Competency