Biotechnology Certificate

PART TIME

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

Total Units: 24

First Year

Semester 1

12 Units

CAT.	COURSE	TITLE	UNIT
RE	CHEM 309	Integrated General, Organic, and Biological Chemistry	5
Req	ENGWR 300	College Composition	3
RE	BIOL 310	General Biology	4

Semester 2

7 Units

CAT.	COURSE	TITLE	UNIT
Req	BIOT 301	Biotechnology and Human Health	3
RE	STAT 300	Introduction to Probability and Statistics	4

Second Year

Semester 3

5 Units

CAT.	COURSE	TITLE	UNIT
Req	BIOT 311	Biotechnology Laboratory Methods - Molecular Techniques	2
Req	BIOT 312	Biotechnology Laboratory Methods - Microbial and Cell Culture Techniques	2
RE	BIOT 305[1]	Introduction to Bioinformatics	1

[1] or BIOT 307 or BIOT 498

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
Req	Required Core	A course that is required for this program

CAREER PATH

Career Options:

This certificate 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:

- BIOL 303 and 310 meet the minimum requirements for this certificate, but BIOL 400, 440, or 442 are recommended as they better prepare students for success in biotechnology.

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:

- Most of the courses in this certificate can also be applied toward the Biotechnology A.S. degree.
- 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. See the Work Experience website for more information.

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