

Biotechnology Laboratory Technology (2199) (A.S.)

RECOMMENDED ROADMAP

This Roadmap is a recommended way to complete this program of study. Course availability is subject to change. In some cases a specific course is shown, but there are other options available. To review and consider other courses, see the note at the bottom of this page. Part-time students should refer to the Recommended Course Sequence list. Consult a Student Success Advisor or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information

1st Term

Course ID	Course Title	Credit Hours	Grade Earned
1* ENC 1101	English Composition I	3	
MAC 1105	College Algebra (or higher level math)	3	
2* BSC 1421C	Introduction to Biotechnology Methods	4	
CHM 1025C	Introduction to General Chemistry	4	

Term Total = 14

3rd Term

Course ID	Course Title	Credit Hours	Grade Earned
BSC 2427C	Biotechnology Methods II	4	
MCB 2010C	Microbiology	4	
STA 2023	Elementary Statistics	3	

Term Total = 11

5th Term

Course ID	Course Title	Credit Hours	Grade Earned
5* BSC 1943 OR BSC 1942	Biotechnology Internship OR Biotechnology Externship	3	
CHM 2046C	General Chemistry and Qualitative Analysis II	4	
BSC 2435	Introduction to Bioinformatics	3	
3* See Note Below	Choose 1 General Education Social and Behavioral Science	3	

Term Total = 13

2nd Term

Course ID	Course Title	Credit Hours	Grade Earned
BSC 2420C	Biotechnology Methods I	4	
BSC 2010C	Principles of Biology I	4	
3* See Note Below	Choose 1 General Education Humanities	3	

Term Total = 11

4th Term

Course ID	Course Title	Credit Hours	Grade Earned
BSC 2419C	Protein Biotechnology and Cell Culture	4	
CHM 2045C	General Chemistry and Qualitative Analysis I	4	
4* See Note Below	Choose 1 Professional Elective	4	

Term Total = 12

Total Credit Hours = 61

Program Notes:

1* ENC 1101C can be taken in place of ENC 1101. Please speak with your advisor for more information.

2* Take this course (BSC 1421C) as early as possible (with English and math).

3* See the options for the General Education Requirements at fscj.edu/asge.

4* See the professional electives on the next page or in the catalog at fscj.edu/2199.

5* Internship (BSC1943) requires the recommendation of the instructor and acceptance by an industry preceptor, with concurrence by the program Dean. Internships are competitive and based on availability. Note that some internship sites may require interns to pass a background check and provide proof of insurance.

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Biotechnology Laboratory Technology (2199) (A.S.) Catalog Year 2018-19

RECOMMENDED COURSE SEQUENCE

This list shows a recommended sequence for completing the courses in this program of study. Course availability is subject to change. Part-time students should use this list to determine which courses to take next that fit their schedule. In some cases a specific course is shown, but there are other options available. To review and consider other courses, see the note on page 1. Consult a Student Success Advisor or the Program Manager before creating your actual Academic Degree Plan and refer to the [FSCJ Catalog](#) for more information.

- **ENC 1101 - English Composition I (Credit Hours: 3) - Prerequisites:** Satisfactory score on the placement test (for non-exempt students only). **See program note 1*.**
 - **MAC 1105 - College Algebra (Credit Hours: 3) (or higher-level math) - Prerequisites:** MAT 1033 with a grade of “C” or better, or satisfactory score on the placement test.
 - **BSC 1421C - Introduction to Biotechnology Methods (Credit Hours: 4) - Prerequisites:** High School Biology. **See program note 2*.**
 - **CHM 1025C - Introduction to General Chemistry (Credit Hours: 4) –Corequisites:** MAC 1105 or higher level MAC course or MAP 2302.
 - **BSC 2420C - Biotechnology Methods I (Credit Hours: 4) - Prerequisites:** MAC 1105 and BSC 1421C.
 - **BSC 2010C - Principles of Biology I (Credit Hours: 4) - Prerequisites:** None
 - **Choose 1 General Education Humanities. See program note 3*.**
 - **BSC 2427C - Biotechnology Methods II (Credit Hours: 4) - Prerequisites:** MAC 1105 and BSC 1421C.
 - **MCB 2010C - Microbiology (Credit Hours: 4) - Prerequisites:** CHM 1020 or CHM 1025C or CHM 1032C or CHM 2045C or other College level chemistry course or placement into CHM 2045C or higher by chemistry placement exam.
 - **STA 2023 - Elementary Statistics (Credit Hours: 3) - Prerequisites:** MGF 1107 or MGF 1106 or MAC 1105 with a grade of “C” or better.
 - **BSC 2419C - Protein Biotechnology and Cell Culture (Credit Hours: 4) - Prerequisites:** MCB 2010C, CHM 1025C and BSC 2427C
 - **CHM 2045C - General Chemistry and Qualitative Analysis I (Credit Hours: 4) - Prerequisites:** MAC 1105 or higher level MAC course or MAP 2302, and CHM 1025C with a grade of “C” or better.
 - **Choose 1 Professional Elective (see list below) (Credit Hours: 4)**
 - **BSC 1943 - Biotechnology Internship (Credit Hours: 3) - Prerequisites:** CHM 2045C and BSC 2419C. **See program note 5*.**
- OR**
- **BSC 1942 - Biotechnology Externship (Credit Hours: 3) - Prerequisites:** CHM 2045C and BSC 2419C.
 - **CHM 2046C - General Chemistry and Qualitative Analysis II (Credit Hours: 4) - Prerequisites:** CHM 2045C with a grade of “C” or better.
 - **BSC 2435 - Introduction to Bioinformatics (Credit Hours: 3) - Prerequisites:** BSC 1421C, BSC 2420C, and BSC 2427C
 - **Choose 1 General Education Social and Behavioral Science. See program note 3*.**

Professional Elective Options (4 credit hours required):

- **BSC 2085C - Human Anatomy and Physiology I (Credit Hours: 4)**
- **BSC 2020C - Human Biology (Credit Hours: 4)**
- **CHM 2205C - Introductory Organic/Biochemistry (Credit Hours: 4)**
- **CHM 1032C - Principles of General Chemistry (Credit Hours: 4)**

Total Credit Hours = 61

To view a list of General Education Requirements, please visit our online catalog: fscj.edu/asge

CAREER OPTIONS

Become a research technician in a neuroscience or cancer biology laboratory or do environmental and food testing. You have a variety of exciting options with your Associate Degree in Biotechnology Laboratory Technology. Career areas range from bioinformatics to quality control. For even more career opportunities, continue your education and earn a bachelor's degree. According to the Bureau of Labor Statistics, employment of biological technicians is projected to grow 14 percent from 2010 to 2020, as fast as the average for all occupations. Continued growth in biotechnology and medical research is expected to increase demand for these workers.

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