Biotechnology

Associate of Applied Science
Frederick Community College Pathway

Frederick Community College

Catalog Year 2018-2019

Guided Pathway to Success (GPS) Suggested schedules map your path to degree completion.

Full-time student: Follow the green semester blocks in order.

Part-time student: Follow the blue course sequence at your own pace.

Students should meet with an advisor each semester to carefully select and sequence courses based on their specific academic goals and interests. Visit Jefferson Hall or call 301.846.2471 (301.846.2625 TDD) for advising.

Students who take fewer than 15 credits each semester or who require developmental English or Math coursework will need additional semesters to complete their degrees. Summer and January term classes may help students to make faster progress.

General Education CORE courses can often be taken in any semester. One course must be designated as a Cultural Competence course. A minimum of nine credits must be taken at the 200 level. Refer to the college catalog for course details and the list of General Education and Cultural Competence classes. http://www.frederick.edu/class-schedules.aspx#catalog

Students are strongly recommended to consult an FCC advisor to select elective courses. Students planning to transfer may also reference ARTSYS, the Maryland Articulation System, www.artsys.usmd.edu.

Take this course within the first 24 credits.

Milestone course – take within recommend credit range to stay on track for completion.

This course is offered in the fall semester only.

This course is offered in the spring semester only.

1 Recommended First Semester

1	Gen Ed CORE	EN 101 English Composition		3 credits
2	Gen Ed CORE	Mathematics Gen Ed		3/4 credits
3	Gen Ed CORE	BI 101 Principles of Biology I		4 credits
4	Departmental Requirement	BPM 102 Bioprocessing Environment	✓	3 credits
5	Departmental Requirement	BPM 103 Laboratory Techniques		1 credit

2 Recommended Second Semester

6	Departmental Requirement	BI 140 Biotechnology & Society		3 credits
7	Departmental Requirement	BI 120 Microbiology for Allied Health or BI 203 Elements of Microbiology		4 credits
8	Departmental Requirement	BPM 110 Bioprocessing Measurements	✓	4 credits
9	Gen Ed CORE	CH 101 General Chemistry I		4 credits

3 Recommended Third Semester

10	Gen Ed CORE	CH 102 General Chemistry II		4 credits
11	Gen Ed CORE	Communications Gen Ed		3 credits
12	Gen Ed CORE	CIS 101 Information Systems & Technology		3 credits
13	Departmental Requirement	BPM 214 Techniques in Bioproduction	✓	4 credits

4 Recommended Fourth Semester

14	Gen Ed CORE	BI 220 Cell Biology & Tissue Culture		4 credits
15	PE/Health	PE/Health Requirement		1/3 credits
16	Gen Ed CORE	Social & Behavioral Sciences Gen Ed		3 credits
17	Departmental Requirement	INTR 103 Internship or Elective (200-level Science or Math course approved by program manager)		3 credits
18	Departmental Requirement	Choose an elective in consultation with an advisor (credits may vary; to fulfill 60 credits for degree)*		6 credits

*Recommended electives: BI 240 Genetics, BU 273 Business Communications, CH 201 Organic Chemistry, CMSP 107 Career Communications, EN 115 Technical Writing

Biotechnology

Frederick Community College
2018-2019 Course Rotation

The course rotation lists FCC's planned offerings by semester, as well as the format in which the course is available (day, evening, and/or online). This is an advising tool to help students anticipate when and how classes are offered. Please reference this document alongside the program pathway, and in consultation with a faculty or staff advisor. Be aware that while FCC will adhere to the rotation as closely as possible, the college cannot guarantee that all classes will be offered in the predicted times and formats. The schedule of courses in a given semester supersedes the rotation in the event of discrepancies.

Course #	Course Name	Summer 2018	Fall 2018	Jan Session 2019	Spring 2019	Summer 2019	Fall 2019	Jan Session 2020	Spring 2020
BI 120	Microbiology for Allied Health	☀	☀		☀ ☾	☀	☀		☀ ☾
BI 140	Biotechnology and Society	☀	🖱		🖱	☀	🖱		🖱
BI 203	Elements of Microbiology		☀				☀		
BI 220	Cell Biology and Tissue Culture		☾		☾		☾		☾
BPM 102	Bioprocessing Environment		🖱		🖱		🖱		🖱
BPM 103	Laboratory Techniques I		☀				☀		
BPM 110	Bioprocessing Measurements				☀				☀
BPM 214	Techniques in Bioproduction				☀				☀
INTR 103	Internship		☀		☀		☀		☀

☀ Day Option Available ☾ Night Option Available 🖱 Online Option Available