



AS - Biotechnology

Program Credits: 63

This is a suggested program guide based on a four semester sequence and is one of many potential paths to completing your program at JCC. Your advisor can work with you to make adjustments to this guide based on [placement scores](#).

SEMESTER 1

Courses		Credits
BIO 1575 or BIO 1570	Biology: A Molecular Approach* or Principles of Biology I	4
CHE 1550	College Chemistry I	4
ENG 1530	English Composition II	3
MAT1600 (or higher)	Precalculus** (or higher)	4
INT 1520^	Student Success Seminar	1
Total		16
Important notes for semester 1:		
*BIO 1575 is the preferred class. Offered in Fall semester only.		
** Students not prepared for MAT 1600 should enroll in a mathematics course based on their placement score or previous mathematics course completion. MAT 1590 (or higher) is a corequisite for CHE 1550.		

SEMESTER 2

Courses		Credits
BIO 2800	Cell and Molecular Biology*	4
BIO 2810	Biotechnology Research*	2
CHE 1560	College Chemistry II**	4
ENG 1540	Writing About Literature (<i>fulfills VEDP requirement</i>)	3
Electives†	Electives	3
Total		16
Important notes for semester 2:		
*Offered in Spring semester only.		
**Offered in Spring semester and may be offered in the summer.		

SEMESTER 3

Courses		Credits
BIO 2560	Genetics*	4
CHE 2530	Organic Chemistry I*	4
Program Core Electives	Program Core Electives	4
Social Science Electives†	Social Science Electives	3
Total		15
Important notes for semester 3:		
*Offered in Fall semester only.		

SEMESTER 4

Courses		Credits
BIO 1580	Principles of Biology II*	4
CHE 2540	Organic Chemistry II*	4
Program Core Electives	Program Core Electives	4
Social Science Electives†	Social Sciences Electives	3
Electives†	Electives	1
Total		16
Important notes for semester 4:		
*Offered in Spring semester only.		

† SUNY requires completion of 30 credit hours and courses from 7 of 10 general education categories to graduate. Electives will need to be chosen carefully. Please see the course schedule listing for further details.

^First time, full-time students are required to take INT 1520: Student Success Seminar.