

Program:	BIO.TEC.CC Biotechnology Certificate (22 credits)			Division:	Business
Student:		ID#:		Catalog Year:	2026-2027

Developmental Education Courses (if required)								
☐	EAP-018	Intensive Academic English	☐	MAT-020	Basics of College Math	☐	COM-017/019	Foundational Reading/Writing
☐	EAP-020/040	EAP Reading I and Writing I	☐	MAT-03_		☐	COM-097	Academic Literacy I
☐	EAP-050/060	EAP Writing II and Reading II				☐	COM-098	Academic Literacy II

SEMESTER BY SEMESTER MAP FOR FULL-TIME STUDENTS

Courses are listed in preferred order of completion. Plans may be modified by adding more semesters.

➤ ***Students must complete BIO-150 or BIO-140 and CHE-150 prior to starting this certificate program.***

SEMESTER 1 – Fall (8 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course#	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	BIO-160	Introduction to Biotechnology	4	BIO 150 and CHE 150 with "C" or higher.	Spring
Major	BIO-280	Microbiology	4	BIO 140 or BIO 150 with a grade of "C" or better. CHE 120 or high school chemistry with a grade of "C" or better. COM 098 or EAP 050 and EAP 060 "	All

SEMESTER 2 – Fall (7 credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	BIO-272	Introduction to Bioinformatics	3	BIO 160 with a grade of "C" or better or placement by assessment	Fall
Major	BIO-275	Biotechnology Techniques	4	BIO 160 with "C" or higher	Fall

SEMESTER 3 – Spring (7credits)

Legend: All = Fall/Spring/Summer; OL = Online

Course Type	Course Number	Course Name	Cr.	Pre-requisites/ Co-requisites	Semesters
Major	BIO-285	Introduction to Biomanufacturing	4	BIO 275 with "C" or higher	Spring
Major	BIO-286	Biotechnology Capstone Project	3	Petition Only	Spring

*Sections of these courses offered in the Honors Program, check <https://www.racc.edu/academics/honors-program> for details. **Online (OL)** may not be offered every semester. Please check the schedule.