Biology: Bioscience Technologies Option, A.S.

[AS-BIO-TEC; CIP Code 26.0101]

Associate in Science (A.S.) — Transfer

This Biology program option provides students with the basic course requirements necessary to satisfy the first three years of a baccalaureate degree in Bioscience Technologies (Biotechnology, Cytotechnology, Medical Technology) at a transfer institution. A "C" grade or better in each course is required for transfer. Biotechnology is the field in which biological and engineering principles are used to develop products and techniques for advances in gene therapy, new tests to diagnose and pharmaceuticals to treat a variety of diseases or new ways of studying the molecular and genetic structure of cells.

Program Learning Outcomes

In addition to the outcomes stated for the A.S. Biology program, students who have completed this option will be able to:

- Apply biological principles to solve problems in health care and in the design of pharmaceutical products
- Possess the laboratory techniques and skills necessary to contribute to the design, research, development and pre-clinical testing of diagnostic and therapeutic agents, methods and systems for health care
- Possess specific technical and problem-solving skills required for biomedical settings in the medical, pharmaceutical and industrial chemical industries

Program Contact

Edward Labelle, Ph.D.
Associate Professor, Biology
elabelle@rcsj.edu

Are you ready to get started at RCSJ? Visit ***RCSJ.edu/Enroll*** and complete the interest form.

FIRST YEAR — Fall Semester

❑	ENG 101 English Composition I	3
❑	BIO 101 General Biology I	4
❑	CHM 111 General Chemistry I	4
❑	MAT 107 Pre-Calculus and Math Analysis	4
		15

Spring Semester

❑	ENG 102 English Composition II	3
❑	BIO 102 General Biology II	4
❑	CHM 112 General Chemistry II	4
❑	MAT 108 Calculus I	4
		15

SECOND YEAR — Fall Semester

❑	BIO 209 Ecology	4
❑	BIO 215 Microbiology	4
❑	___ ___ Social Science elective	3
❑	___ ___ Humanities elective	3
❑	BIO 105 Anatomy and Physiology I	4
		18

Spring Semester

❑	CHM 201 Organic Chemistry I	4
❑	BIO 221 Cell and Molecular Biology	4
❑	___ ___ Social Science or ___ ___ Humanities elective	3
❑	HPE ___ HPE elective	1–3
❑	BIO 106 Anatomy and Physiology II	4
		16–18

TOTAL MINIMUM CREDITS: 64

Program Notes

Students planning to transfer to Thomas Jefferson University will require two additional courses selected from the following options: BIO 140 Science of Nutrition, CHM 202 Organic Chemistry II, CSC 101 Introduction of Programming or CSC 111 Intermediate Programming, HPE 136 Nutrition or PHY 103 General Physics I.