



[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

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Are you ready to get started at RCSJ?
Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/Enroll) and complete the interest form.

Biology: Bioscience Technologies Option, A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENG 101 English Composition I	3
<input type="checkbox"/> BIO 101 General Biology I	4
<input type="checkbox"/> CHM 111 General Chemistry I	4
<input type="checkbox"/> MAT 107 Pre-Calculus and Math Analysis	4
	15

Spring Semester

<input type="checkbox"/> ENG 102 English Composition II	3
<input type="checkbox"/> BIO 102 General Biology II	4
<input type="checkbox"/> CHM 112 General Chemistry II	4
<input type="checkbox"/> MAT 108 Calculus I	4
	15

SECOND YEAR – Fall Semester

<input type="checkbox"/> BIO 209 Ecology	4
<input type="checkbox"/> BIO 215 Microbiology	4
<input type="checkbox"/> ___ ___ Social Science elective	3
<input type="checkbox"/> ___ ___ Humanities elective	3
<input type="checkbox"/> BIO 105 Anatomy and Physiology I	4
	18

Spring Semester

<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> BIO 221 Cell and Molecular Biology	4
<input type="checkbox"/> ___ ___ Social Science or ___ ___ Humanities elective	3
<input type="checkbox"/> HPE ___ HPE elective	1-3
<input type="checkbox"/> 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.