



Industrial Biotechnology

Available at SRHS and VBHS

DOE Program Structure

Grade	Course	Credit
9 th or 10 th	Biotechnology 1 H, EQ	1
10 th or 11 th	Biotechnology 2 H, EQ	1
11 th or 12 th	Biotechnology 3 H	1

EQ =Equally Rigorous **H**=Honors Level

Topics Covered

- ✓ employability skills
- ✓ safety procedures
- ✓ scientific inquiry, calculations, and analysis
- ✓ chemical processes
- ✓ cell propagation, growth, and cultures
- ✓ bioethics
- ✓ organism structure and function
- ✓ quality control procedures
- ✓ DNA extraction
- ✓ biotechnical materials analysis skills
- ✓ protein synthesis
- ✓ genetic diversity

Internship Opportunity

Students may enter an internship during their senior year with a local industry partner.

Post-Secondary Opportunity

Upon completion of Biotechnology 1, 2, and 3, students have the opportunity to receive **12 general education credits at Indian River State College**.

In addition, the following "Career Pathways" credits can be awarded:

- BSC 1421 Introduction to Biotechnology **3 credits**
- BSC 1421L Introduction to Biotechnology Lab **1 credit**

What is Industrial Biotechnology?

In Industrial Biotechnology students will learn basic research skills leading to careers in the field of medicine, pharmaceuticals, biotechnology, industry, agriculture, veterinary, environmental, and marine sciences.

Industry Certifications

Students have the opportunity to earn the Biotechnician Assistant certification.

The Biotechnician Assistant certification can articulate into Gold Standard Career Pathway credit towards AA/AS degrees.



Career Outlook

Median wage \$21.39 hourly, \$44,500 annual
<https://www.bls.gov/ooh/life-physical-and-social-science/biological-technicians.htm>

"Educate and inspire every student to be successful"

Dr. Mara Schiff ● Jacqueline Rosario ● Laura Zorc ● Teri Barenborg ● Tiffany M. Justice
District 1 District 2 District 3 District 4 District 5

"To serve all students with excellence"
Equal Opportunity Educator and Employer

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