

# Biotechnology

# BIT.AAS

CODE	COURSE	CREDITS	CODE	COURSE	CREDITS
<b>First Year/First Semester</b>			<b>Second Year/First Semester</b>		
ENG-101	English Composition I	3	BIO-240	Genetics	4
BIO-111	Biology I: Science	4	BIT-201	Applications in Biotechnology	4
BIT-102	Introduction to Biotechnology	1	CHM-221	Organic Chemistry I	4
MTH-125	Accelerated Precalculus	4	HIS-101	World Civilization I or	
		<b>12</b>	ENG-271	World Literature I	3
<b>Second Semester</b>			<b>Second Semester</b>		
ENG 102	English Composition II	3	BIT-202	Instrumental Analysis	4
BIO-221	Microbiology I	4	BIT-200	Fundamentals of Biochemistry	4
CHM-111	Chemistry I: Science	4	PHL-232	Biomedical Ethics	3
MTH-171	Statistics I or		.....	Social Science General Education Elective	3
MTH-134	Biostatistics <sup>1</sup>	3/4			<b>14</b>
HPE.....	Health & Exercise Science Elective	1			
		<b>15/16</b>	<b>Summer Semester</b>		
<b>Summer Semester</b>			BIT-205	Biotechnology Internship	3
CHM-112	Chemistry II: Science	4			<b>3</b>
		<b>4</b>	<b>Total Minimum Credits</b>		
					<b>63</b>

<sup>1</sup> Biostatistics: MTH-140 (Calculus) pre-requisite or permission from Chair of Math Department.

**PROGRAM DESCRIPTION**

The Biotechnology program will prepare students for entry-level positions in industries involving the field of biotechnology. These industries include pharmaceuticals, university and private research laboratories, medical technology and biotechnology companies.

**PROGRAM GOALS**

- To prepare students for entry-level employment in a biotechnology area.
- To provide students with a General Education foundation.

**PROGRAM STUDENT LEARNING OUTCOMES**

- At the end of the program, the graduate will be able to:
1. Work safely in a laboratory.
  2. Analyze samples using modern computer interfaced instrumentation.
  3. Analyze and present data in multiple formats (graphic, oral and written).
  4. Explain the fundamental concepts of biology and chemistry.

**SPECIAL PROGRAM REQUIREMENT**

Before graduation, students must complete a supervised, internship program at an approved biotechnology location or a research project under the direction of College faculty. A student in the biotechnology curriculum must earn a grade of "C" or better in all science and biotechnology courses to be eligible for the BIT.AAS degree.

**EMPLOYMENT OPPORTUNITIES**

- Entry-level position in Biotechnology industries
- Research laboratories
- Pharmaceutical industry
- Laboratory technician

**CONTACT PERSON**

William T. Lavell  
 (856) 227-7200, ext. 4478  
 email: wlavell@camdencc.edu