

Associate in Applied Science Biotechnology

CIP Code 41.0101

BIT.AAS

| FIRST YEAR/FIRST SEMESTER | | | |
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| Course # | Course Name | Credits | Notes |
| ENG-101 | English Composition I | 3 | Must test into ENG-101 or take all appropriate prerequisites |
| BIO-111 | Biology I Science | 4 | |
| BIT-102 | Introduction to Biotechnology | 1 | |
| MTH-125 | Accelerated Pre-calculus | 4 | Must test into MTH-125 or complete all prerequisites |
| FIRST YEAR/SECOND SEMESTER | | | |
| ENG-102 | English Composition II | 3 | Prerequisite: ENG-101 |
| BIO-221 | Microbiology | 4 | Prerequisite: BIO-111 |
| CHM-111 | Chemistry I – Science | 4 | Prerequisite: CHM-010 and MTH-124 or MTH-125 |
| MTH-171 | Statistics I | 3 | Prerequisites: MTH-114 or MTH-123, or MTH-125 or MTH-120 |
| SUMMER SEMESTER | | | |
| CHM-112 | Chemistry II – Science | 4 | Prerequisites: CHM-111 |
| SECOND YEAR/FIRST SEMESTER | | | |
| BIO-240 | Genetics | 4 | Prerequisites: BIO-111 and CHM-111 |
| BIT-201 | Applications in Biotechnology | 4 | Prerequisites: BIO-221, BIT-102 and CHM-112; Co-requisites: BIO-240 |
| CHM-221 | Organic Chemistry I | 4 | Prerequisite: CHM-112 |
| HIS-101 or ENG-271 | World Civilization I World Literature I | 3 | |
| SECOND YEAR/SECOND SEMESTER | | | |
| BIT-202 | Instrumental Analysis | 4 | Prerequisites: BIT-102, CHM-112 and CHM-221 |
| BIT-200 | Fundamentals of Biochemistry | 4 | Prerequisites: BIO-111 and CHM-221; Co-requisite BIO-240 |
| PHL-232 | Biomedical Ethics | 3 | |
| HPE... | Health and Exercise Science Elective | 1 | |
| SUMMER SEMESTER | | | |
| BIT-205 | Biotechnology Internship | 3 | Prerequisites: BIT-102, BIT-201 and BIT-202 |
| TOTAL CREDITS | | 60 | |

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.

CONTACT PERSON

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