

BIOTECHNOLOGY LABORATORY ASSISTANT - ACADEMIC CERTIFICATE (AC)

- **Program Code:** BTEC.AC
- **Program Type:** Academic Transfer
- **Available Fully Online:** No
- **Eligible for Federal Financial Aid:** No

NOTE: Courses required for this program *may* have an additional fee; more information can be found on the [Special Course Fees](#) web page.

Certificate Quick Facts

- **Instructional School:** Science, Technology, and Math
- **Department:** Physical Sciences

Certificate Requirements

| Course | Course Title | Min Credits |
|---|--|-------------|
| Major Requirements ¹ | | |
| MATH 143 or MATH 147 | Precalculus I: Algebra ² Precalculus | 3-5 |
| BIOL 111 | Biology I ³ | 3 |
| BIOL 111L | Biology I Lab ³ | 1 |
| BIOL 112 | Biology II | 3 |
| BIOL 112L | Biology II Lab | 1 |
| CHEM 101 | Introduction to Chemistry ³ | 3 |
| CHEM 101L | Introduction to Chemistry Lab ³ | 1 |
| CHEM 111 | General Chemistry I ³ | 3 |
| CHEM 111L | General Chemistry I Lab ³ | 1 |
| CHEM 112 | General Chemistry II | 3 |
| CHEM 112L | General Chemistry II Lab | 2 |
| CHEM 298 | Organic Chemistry I | 3 |
| CHEM 298L | Organic Chemistry I Lab | 2 |
| SCIE 102 | Ethics in Science ⁴ | 3 |
| Select one of the following MMBS course sequences: | | 4 |
| MMBS 260 & 260L | Introduction to Cell Biology and Introduction to Cell Biology Lab | |
| MMBS 280 & 280L | Genetics and Genetics Lab | |
| Complete three (3) credits from the following internship courses: | | 3 |
| BIOL 293 | Biology Internship | |
| BTEC 293 | Biotechnology Internship | |
| CHEM 293 | Chemistry Internship | |
| SCIE 200 | Vertically Integrated Projects (VIP) | |

Minimum Credit Hours Required

39

¹ The courses required for this certificate may apply toward an [Associate of Science degree in Biology](#). Students should work closely with their advisor to select the most appropriate options based on their educational goals and transfer plans.

² This course fulfills the Mathematical Ways of Knowing (GEM 3) general education requirement for an associate degree (AA, AS, or AAS) at CWI.

³ This course partially fulfills the Scientific Ways of Knowing (GEM 4) general education requirement for an associate degree (AA or AS) at CWI.

⁴ This course partially fulfills the Social and Behavioral Ways of Knowing (GEM 6) general education requirement for an associate degree (AA, AS, or AAS) at CWI. It also fulfills the Ethical Reasoning general education requirement for an associate degree (AA or AS) at CWI.