

BIOTECHNOLOGY - CERTIFICATE



BIOT Programs

CCRI's Biotechnology program includes courses in biotechnology, microbiology, chemical technology and instrumentation. Coursework is designed to mirror many of the concepts and techniques used in biotechnology and related industries. In addition to coursework, students will have access to industry professionals through classroom speakers, manufacturing facility tours, industry seminars and professional networking.

The Biotechnology program offers hands-on, competency-based instruction designed for entry-level students or retraining for individuals with previous workplace and/or educational experience. The 18-credit certificate program focuses on the techniques and skills leading companies look for in the area of biomanufacturing. Biotechnology certificate credits can be used toward the completion of the Science track leading to an Associate in Science (A.S.) degree. This allows students the option of working in the biotechnology field while completing their degree. Alternatively, students can complete the Associate in Science degree and the Biotechnology certificate program concurrently.

For more information, see the "Science" track entry (<https://catalog.ccri.edu/programs-study/science/science-as/>) in the catalog or contact Program Coordinator Scott Warila at 401-825-2136 or swarila@ccri.edu. Additional information is available through the Biology Department on the CCRI website. (<https://www.ccri.edu/biology/>)

Note: Students are required to receive a grade of C or better in the courses required for the Biotechnology certificate or obtain special permission from the program coordinator. Many courses require prerequisites, corequisites and/or testing. See course descriptions for details. (<https://catalog.ccri.edu/course-descriptions/>)

Certificate Requirements

| Code | Title | Hours |
|-------------|---|-------|
| BIOL 1300 | Orientation to Biotechnology | 1 |
| BIOL 1000 | Cell Biology for Technology | 4 |
| CHMT 1121 | Chemistry for Biotechnology | 3 |
| BIOL 1310 | Introduction to Biotechnology Laboratory Skills | 3 |
| BIOL 2480 | General Microbiology | 4 |
| INST 1010 | Introduction to Instrumentation Technology | 3 |
| Subtotal | | 18 |
| Total Hours | | 18 |

Recommended Course Sequence

| Course | Title | Hours |
|-------------------|--|-------|
| Semester 1 | | |
| BIOL 1000 | Cell Biology for Technology ¹ | 4 |
| INST 1010 | Introduction to Instrumentation Technology | 3 |
| Hours | | 7 |

Semester 2

| | | |
|-----------|---|---|
| CHMT 1121 | Chemistry for Biotechnology ² | 3 |
| BIOL 1310 | Introduction to Biotechnology Laboratory Skills | 3 |
| Hours | | 6 |

Summer Session

| | | |
|-------------|---|----|
| BIOL 1300 | Orientation to Biotechnology ¹ | 1 |
| BIOL 2480 | General Microbiology | 4 |
| Hours | | 5 |
| Total Hours | | 18 |

¹ Also offered in spring

² Offered some summers