

BIOTECHNOLOGY

Associate in Science

This degree program is designed to prepare students for careers in the rapidly growing field of biotechnology. The emphasis of this program is on the theoretical and practical applications of the natural sciences, particularly in the areas of cellular and molecular biology. Biotechnology is attractive to students interested in immediately entering the job market as well as to those interested in a transfer program to four-year institutions that offer baccalaureate degrees in biotechnology. Job analysis and discussions with specialists in the field indicate that there is tremendous potential for growth and employment opportunities within the industry and in this region. The biotech industry in New Jersey and nationwide is growing rapidly. Examples of career opportunities include Lab Technician, Quality Control Technician, and Research & Development Technician.

FIRST SEMESTER

4 s.h. Biology (BIOL 161)

4 s.h. General Chemistry I (CHEM 181)*

6 s.h. College Algebra for Science, Mathematics
and Engineering Majors (MATH 161 or higher, see NOTE)

NOTE: MATH 161 is for students with a Math placement level of MATH 012.

Students who do not need MATH 012 should take MATH 165 or higher.

3 s.h. English I (ENGL 151)

17 s.h.

SECOND SEMESTER

4 s.h. Biology II (BIOL 162)

4 s.h. General Chemistry II (CHEM 182)*

4 s.h. General Microbiology (BIOL 264)

3 s.h. English II (ENGL 152)

1 s.h. Biotechnology Seminar (BTEC 191)

16 s.h.

THIRD SEMESTER

4 s.h. Biotechnology (BTEC 293)

3 s.h. Computer Literacy (CSIT 110)

2-3 s.h. Applied Modern Health (HEHP 110) or
Contemporary Health (HEHP 225)

3 s.h. Humanities Elective**

3 s.h. Social Science Elective***

15-16 s.h.

FOURTH SEMESTER

4 s.h. Biotechnology II (BTEC 294)

4 s.h. Biotechnology III (BTEC 295)

2 s.h. Internship (BTEC 296)

1 s.h. Biotechnology Seminar II (BTEC 298)

3 s.h. Humanities Elective**

3 s.h. Social Science Elective***

17 s.h.

TOTAL CREDITS 65-66

* Students considering transfer to a four-year institution should take Organic Chemistry I and II (CHEM 283 and 284).

** Suggested Electives: Fundamentals of Public Speaking (COMM 154)
Contemporary Ethical Issues (PHIL 192)
Basic Photography (COPH 191)

*** Suggested Courses: General Psychology (PSYC 172)
Introduction to Political Science (POLI 183)