

Bioscience Technician

Associate in Applied Science in Allied Health & Life Science

Program Description:

Bioscience A.A.S. Graduates have a wide range of career options within the health science and biotechnology industries. Bioscience technicians work in professional, scientific, or technical services firms. Bioscience technicians also work in educational services, Federal, State, and local governments, or pharmaceutical and medicine manufacturing.

Bioscience technicians working with biologists study living organisms. Many assist scientist who conduct medical research—helping find a cure for cancer or AIDS, for example. Those who work in pharmaceutical companies help develop and manufacture medicine. Those working in the field of microbiology generally work as laboratory assistants, studying living organisms and infectious agents. Biological technicians also analyze organic substances, such as blood, food, and drugs. Biological technicians working in biotechnology apply knowledge and techniques gained from basic research, including gene splicing and recombinant DNA, and apply them to product development. Some Bioscience technicians work in agricultural or food science with related scientists to conduct research, development, and testing on food and other agricultural products.

The A.A.S. Bioscience Technician Degree includes a total of 60 credit hours, including a 4-week summer internship at an affiliated laboratory.

Career Outlook:

According to the United State Department of Labor, the employment projection on the average for all Bioscience Technicians is expected to grow as fast as other occupations. However, selective specialties within this field are expected to grow faster.

Salary Forecast:

Hourly wage for Bioscience Technicians, average over \$10.00 to \$15.00/hour with benefits. Specialized training and/or national certification may earn more due to flexibility and adaptability to various practice sites.

(information obtained from the Occupational Outlook Handbook 2006-2007)

Admission Requirements:

1. Applicants must complete all general education and prerequisite courses with a grade of “C” or better, and must have a cumulative GPA of 2.0 or higher.
2. Proof of medical insurance coverage is required for internship.
3. Some clinical facilities may require random drug screen testing or background checks prior to acceptance into internship.
4. Prior to admission to the Bioscience program and/or clinical internships, students may be required to document that they have successfully passed a criminal background check and drug screen. For more information concerning the Allied Health criminal background check and drug screen procedures, please contact the Dean of Allied Health and Life Sciences at (304) 696-6270

Major Code – CB20

FIRST YEAR	
First Semester ENL 111 Written Communication ¹3 MAT 145 Applications in Algebra ²3 IT 101 Fundamentals of Computers (EDGE)3 BIOS 100 Careers in Bioscience3 Social Science elective.....3 TOTAL CREDITS15	Second Semester ENL 231 Technical Report Writing ³3 BIOL 101 Unified Principles of Biology.....3 BIOL 101L Unified Principles of Biology Lab1 BIOS 202 Calculations in Biosciences ⁴3 SCI 220 Introduction to Chemistry ⁵3 General Education elective3 TOTAL CREDITS16
SECOND YEAR	
Third Semester BIOS 201 Laboratory Methods I ⁶3 BIOS 210 Introduction to Microbiology3 BIOS 240 Principles in Cell Biology ⁷4 BIOS 241 Regulatory Affairs ⁸3 TOTAL CREDITS13	Fourth Semester BIOS 205 Laboratory Methods ⁹3 BIOS 242 Molecular Methods in Biotechnology ¹⁰4 BIOS or BIOL Elective ¹¹5 TOTAL CREDITS12
Summer Session A BIOS 299 Bioscience Internship ¹²4	
HOURS REQUIRED FOR GRADUATION: 60	

Employment Opportunities:

- Reference Laboratories
- Environmental Laboratories
- Biotechnology Industries
- Reference Laboratories

Contact Information:

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Additional Information

*In order to graduate from the A.A.S. Bioscience program, students must maintain a minimum grade of “C” or better in all Bioscience courses. Should a student receive a “D” or “F” in any of the Bioscience courses, they will be allowed to repeat the course one time before dismissal from the program.

¹ ENL111 has a prerequisite of COM 095, ACT 18.

² MAT 145 has a prerequisite of ACT 19, MAT 097.

³ ENL 231 has a prerequisite of ENL 111.

⁴ BIOS 202 has a prerequisite of MAT 145 or wither with a “C” or better.

⁵ SCI 220 has a prerequisite of MAT 145.

⁶ BIOS 201 has a prerequisite of BIOL, Admission to the Bioscience program.

⁷ BIOS 240 has a prerequisite of BIOL 101 and BIOL 101L.

⁸ BIOS 241 has a prerequisite of BIOS 100

⁹ BIOS 205 has a prerequisite of BIOS 201, MAT 145 with a “C” or better, BIOS 202, BIOS 240 with a “C” or better.

¹⁰ BIOS 242 has a prerequisite of BIOS 200 and Bios 240, Admission to the Bioscience program.

¹¹ BIOS or BIOL ELECTIVE-IST OR BSC elective with permission.

¹² BIOS 299 has a prerequisite of BIOS 205, BIOS 242 with a “C” or better.