



Biological Laboratory Science

Bachelor of Science



A Bachelor of Science in Biological Laboratory Science will prepare students to work in a laboratory setting as a Research Associate or Technician. Such positions can be found in academic, industrial and government settings, which includes biotechnology manufacturing companies that produce genetically engineered products like new vaccines, drugs or modified plants and animals for human consumption, university and medical research laboratories, government regulatory agencies and forensics laboratories.

This program can serve as a bachelor's completion program for students who have earned an Associate degree in Biotechnology and additionally provides preparation for admission to post-baccalaureate degree programs in medicine, dentistry, veterinary science, occupational therapy, physical therapy and pharmacy.

Program Outcomes

Laboratory components of the program course sequence are designed for students to learn techniques and methodologies used in the disciplines of cell and molecular biology, genetics, DNA bioinformatics, microbiology and forensic science. Students conduct activities that involve experimental design, data analysis, and the use of advanced technologies to investigate research questions. Program training culminates with student completion of a capstone research project as well as a separate external Internship in a laboratory setting.

Why DU?

This program is part of Davenport's continuing effort to identify and respond to strong needs in the marketplace. The specific focus on preparing students for a career in a biological research laboratory setting is a key differentiator from other Bachelor Degrees in Biology typically offered at institutions throughout the State of Michigan.

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Davenport University

- We are a private, nonprofit university preparing students for a career.
- We award \$15 million in scholarships each year.
- We keep a low student-to-faculty ratio. Average class size is 15.
- We offer classes online and at campuses across Michigan.
- We specialize in flexible online or on-campus classes days and evenings.
- We are nationally respected for our curriculum and faculty.

Davenport University College of Arts and Sciences

Our Excellence System builds a strong foundation for your future. Our focus is on nine critical-thinking skills that prepare you to succeed in any field. No matter what degree you choose, it all starts here and grows, with a knowledge base in math, humanities, English, social sciences and languages.

Learn more from admissions representatives at **800-686-1600** or **davenport.edu**



Recommended Course Sequence

Year 1

Fall		17 cr
ACES100	Achieving Career and Academic Success	3 cr
BIOL110	Foundations of Cell Biology	4 cr
BIOL110L	Foundations of Cell Biology Lab	
CHEM160	General Chemistry I	4 cr
CHEM160L	General Chemistry I Lab	
ENGL109	Composition	3 cr
MATH125	Intermediate Algebra	3 cr

Winter		17 cr
BIOL111	Organisms and Populations	4 cr
BIOL111L	Organisms and Populations Lab	
CHEM161	General Chemistry II	4 cr
CHEM161L	General Chemistry II Lab	
ENGL110	Advanced Composition	3 cr
MATH135	College Algebra	3 cr
SOSC201	Diversity in Society	3 cr

Year 2

Fall		14 cr
BIOL209	Techniques in Laboratory Science	4 cr
BIOL336	Genetics	4 cr
CHEM250	Organic Chemistry I	3 cr
CHEM250L	Organic Chemistry I Lab (optional)*	1 cr
COMM120	Presentation Techniques	3 cr

Winter		16 cr
BIOL211	Microbiology	4 cr
BIOL211L	Microbiology Lab	
CHEM255	Organic Chemistry II	3 cr
CHEM255L	Organic Chemistry II Lab (optional)*	1 cr
SOSC301	Globalization and World Diversity	3 cr
STAT219	Introduction to Biostatistics	3 cr
Open Elective*		3 cr

Year 3

Fall		14 cr
BIOL354	Cell and Molecular Biology	4 cr
BIOL354L	Cell and Molecular Biology Lab	
BITS211	Microcomputer Applications: Spreadsheet	3 cr
ENGL311	Professional Writing	3 cr
PHYS210	Fundamentals of Physics I	4 cr
PHYS210L	Fundamentals of Physics I Lab	

Winter		14 cr
BITS212	Microcomputer Applications: Databases	3 cr
CHEM310	Biochemistry	4 cr
CHEM310L	Biochemistry Lab	
PHYS220	Fundamentals of Physics II	4 cr
PHYS220L	Fundamentals of Physics II lab	
Open Elective*		3 cr

Year 4

Fall		14 cr
BIOL430	Advanced Microbiology	4 cr
BIOL430L	Advanced Microbiology Lab	
BIOL458	Forensic Science	4 cr
BIOL458L	Forensic Science Lab	
BIOL4XX	Capstone Research Project	3cr
BIOL382	Science Ethics	3cr

Winter		14 cr
BIOL486	Introduction to Bioinformatics	3 cr
BIOL475	Advanced Forensic Science	4 cr
BIOL475L	Advanced Forensic Science Lab	
BIOL490	Biological Laboratory Internship	4 cr
Open Elective*		3 cr

*Recommended for all students, especially if using this program as pre-professional. If the degree intent is pre-professional, you may want to consider taking MATH 215, Calculus, BIOL221/221L and BIOL222/222L Anatomy and Physiology I and II, upon consultation with applicant schools.

This information is subject to change and cannot be considered an agreement or contract between individual students and Davenport University. Refer to the current University catalog to confirm degree requirements.



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