

MAYVILLE STATE UNIVERSITY

Biology

Bachelor of Science



Personal Service

We pride ourselves on being just the right size to give students the time they need to be successful. Our average class size is 15, so you will have small, personalized class settings with a technological focus for you to receive the education that you deserve. Your professors will introduce you to new ways of thinking, explore issues creatively, and evaluate ideas as you engage in the world.

Opportunity

Whether it's music, athletics, or politics, students at MSU have the chance to participate in a variety of activities and clubs. These organizations are a great way to make new friends with similar interests, and the involvement outside the classroom looks great on a resume.

Some clubs and activities include:

- Theater
- Band & choir
- DECA
- Science Club
- Comet Radio
- Student government
- Intramural sports

Success

Our students get jobs. Period. We also have internship opportunities to give you real, hands-on learning experiences and make your resume stand out.

Value

The combination of MSU's affordability and its unique offerings make it a Best in the Midwest College, as designated by the Princeton Review. This selection process is based on meeting criteria for academic excellence as well as results of surveys done by current MSU students.

The Program

Mayville State's biology program will prepare you for many career and educational opportunities. The program offers opportunities for students to get involved in biological research and to actively participate in the biology/science community. Our biology program will produce the following student learning outcomes:

- Students will acquire a content knowledge base commensurate with career goals.
- Students will communicate scientific information both orally and in writing.
- Students will apply quantitative or qualitative theories of science to a broad variety of biological problems (including experiential component).
- Students will construct and critically analyze scientific arguments.
- Students will integrate technology appropriate to their major into their work products.

Undergraduate Research Opportunities

In many programs, research opportunities are limited to graduate students, but at Mayville State we're focused on your success as an undergraduate. That's why our program offers you personalized class settings, up-to-date tools, and the opportunity for a variety of research projects.

"My favorite thing about MSU is the individual attention instructors can offer. If I have a question, I don't feel shy about asking during class or staying after in order to get the best out of my education."

- Katelyn O.
Biology Major

1.800.437.4104

WWW.MAYVILLESTATE.EDU

Major: Biology

Required credits to graduate with this degree: 120

This program is designed for flexibility with students planning graduate studies in the academic area, planning to pursue a career working with wildlife, or planning further study as a pre-professional background for areas such as medicine, pharmacy, chiropractic, etc. The student must complete the essential studies core, the biology core listed below, and the desired biology specialization. The MSU Bachelor of Science degree requires completion of at least a minor program in a supporting area in conjunction with the major. A capstone laboratory or non-laboratory project (SCNC 480) is required.

Biology majors must complete 36 hours of essential studies including COMM 110, ENGL 110, ENGL 120 or ENGL 125, MATH 103, MATH 105, BIOL 150, BIOL 150L, BIOL 151, BIOL 151L, and a minimum of six (6) SH of social sciences which are pre-requisite courses for this major.

Biology - B.S.

Core Requirements:

BIOL 315	Genetics	3 SH
BIOL 315L	Genetics Lab	1 SH
BIOL 341	Cell Biology	3 SH
BIOL 341L	Cell Biology Lab	1 SH
BIOL 359	Evolution	3 SH
BIOL 476S	Comprehensive Review and Exam	1 SH
MATH 323	Probability and Statistics	3 SH
SCNC 480	Science Comprehensive	1 SH

Total 16 SH

Specialization Areas

Health Careers Area Specialization (minimum 13 SH)

BIOL 220	Anatomy & Physiology I	3 SH
BIOL 220L	Anatomy & Physiology Lab I	1 SH
BIOL 221	Anatomy & Physiology II	3 SH
BIOL 221L	Anatomy & Physiology Lab II	1 SH
BIOL 302	Survey of Microbiology	3 SH
BIOL 302L	Survey of Microbiology Lab	1 SH
BIOL 364	Parasitology	3 SH
MLS 301	Immunology	3 SH

Wildlife Careers Area Specialization (minimum 13 SH)

BIOL 236	Survey of Botany	3 SH
BIOL 236L	Survey of Botany Lab	1 SH
BIOL 311	Invertebrate Zoology	3 SH
BIOL 311L	Invertebrate Zoology Lab	1 SH
BIOL 312	Vertebrate Zoology	3 SH
BIOL 312L	Vertebrate Zoology Lab	1 SH
BIOL 332	General Ecology	3 SH
BIOL 364	Parasitology	3 SH

Admission to Biology Major

All admission criteria are monitored and enforced by the discipline faculty. Admission to the Biology major requires that the student:

- Complete BIOL 150 and BIOL 151 with a minimum grade of "C" in each course.
- Have an institutional cumulative GPA of at least 2.50.
- Have satisfactory communication skills as demonstrated by successful completion of ENGL 110 and ENGL 120 or ENGL 125 with a minimum grade of "C" in each course.
- Have satisfactory mathematics skills as demonstrated by successful completion of MATH 103 with a minimum grade of "C."
- Have satisfactory computer skills as demonstrated by successful completion of CIS 119 with a minimum grade of "C" or comparable performance on the appropriate University examination.
- Complete an oral interview with the discipline faculty.

Final approval of the discipline faculty is contingent upon their professional judgment following consideration of documentation and faculty assessment.

If you have any questions regarding the biology program or any other program, give us a call at 800.437.4104, ext. 34842 or go online:

www.MayvilleState.edu