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 technologic 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
• Computer Technology Club
• 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.

Advantages
Hands-on experience in the lab - Unlike many other undergraduate programs in biology where hands-on laboratories are becoming increasingly rare, the biology program at Mayville State University emphasizes a strong laboratory component with state-of-the-art instruments for accurate and efficient research.

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.
**Major: Biology**

**Required credits to graduate with this degree: 120**

This program is designed for students planning graduate studies in the academic area or as a pre-professional background for areas such as medicine, pharmacy, chiropractic, etc. The student must complete the essential studies core and the biology core listed below. 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 as well.

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

**Biology - B.S.**

**Core Requirements:**

- BIOL 236 Survey of Botany 3 SH
- BIOL 236L Survey of Botany Lab 1 SH
- BIOL 302 Survey of Microbiology 3 SH
- BIOL 302L Survey of Microbiology 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 315 Genetics 3 SH
- BIOL 315L Genetics Lab 1 SH
- BIOL 341 Cell Biology 3 SH
- BIOL 341L Cell Biology Lab 1 SH
- BIOL 476S Comprehensive Review and Exam 1 SH
- MATH 323 Probability and Statistics 3 SH
- SCNC 480 Science Comprehensive 1 SH

**Total 29 SH**

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**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 112, CIS 114, CIS 116, and CIS 118 with a minimum grade of “C” in each course 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 this program, please contact Connie Kaldor: 701.788.4721 or connie.kaldor@mayvilles.edu.

To apply, go to www.MayvilleState.edu

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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](http://www.MayvilleState.edu)