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 résumé.

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 résumé 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

Impact your future through the many facets of mathematics and build a solid foundation in the mathematics/mathematics education programs at Mayville State University. These programs emphasize cognitive development through problem based learning of mathematical topics. These ideals, taught in small class settings, will prepare you for a career in business, industry, or education.

MSU’s mathematics/mathematics education programs provide you with the knowledge, skills, and techniques that are essential to using mathematics in teaching and non-teaching positions. You’ll develop an awareness of the vital connections between mathematical topics and their real world applications.

Advantages

Hands-on training. Computer courses and cooperative education/internship programs provide plenty of hands-on training for students.

Student-to-faculty ratio. Small class sizes will allow you ample time to meet with instructors where you’ll be able to ask questions and get the attention you need while strengthening the foundation of your education in mathematics.

Employment options. Numerous career opportunities are available. Graduates from MSU’s mathematics/mathematics education programs will be prepared for career opportunities as accountants, actuaries, bankers, college administrators, economists, tax managers, computer technicians, statisticians, demographers, and lawyers. Students would also be prepared to attend graduate school for further education in the field of mathematics.
Major: Mathematics Education

B.S.Ed

Required credits to graduate with this degree: 125

Students planning to teach in grades 7-12 must complete a major, 36 hours of essential studies courses including MATH 165, COMM 110, ENGL 110, ENGL 120 or ENGL 125, GEOG 103, and PSYC 111, which are pre-requisite courses to this major, the mathematics core requirements listed below, and the secondary professional courses required for teacher certification. Teacher certification also requires completion of EDUC 398-Secondary Education Field Experience, EDUC 483-Secondary Methods for Mathematics and EDUC 426-Reading in the Content Area. All Math Education majors must complete a minor program.

Core Requirements:

- MATH 105 Trigonometry......................... 2 SH
- MATH 166 Calculus II .......................... 4 SH
- MATH 265 Calculus III ........................... 4 SH
- MATH 323 Probability and Statistics.......... 3 SH
- MATH 389 Modern Geometry................... 3 SH
- MATH 412 Differential Equations.............. 3 SH
- MATH 420 History and Philosophy of Math..... 3 SH
- MATH 435 Theory of Numbers .................... 3 SH
- MATH 443 Algebraic Structures with Programming for Majors .................... 3 SH
- MATH 480 Comprehensive Review/Exam....... 1 SH

Total 29 SH

Mathematics Student Learning Outcomes:

SLO 1: Students will acquire a content knowledge base commensurate with career goals.
SLO 2: Students will communicate mathematics information both orally and in writing.
SLO 3: Students will apply mathematics in context, including at least one experiential situation, to solve problems.
SLO 4: Students will construct and critically analyze mathematical arguments.
SLO 5: Students will integrate technology appropriate to their major into their work products.

Teacher Education Student Learning Outcomes:

SLO 1: Students will demonstrate knowledge of concepts and applications of learning theories and assessment techniques from childhood through adolescence.
SLO 2: Students will demonstrate instructional strategies that are developmentally appropriate for diverse learners.
SLO 3: Students will apply effective verbal and non-verbal communication, multi-media, computers, and current technology skills in education settings.
SLO 4: Students will participate in opportunities to interact with the community, schools, and society.
SLO 5: Students will demonstrate professional dispositions to be successful teacher education candidates.

Major: Mathematics - B.S.

Required credits to graduate with this degree: 120

This major provides students with the knowledge, skills, and techniques essential for using mathematics in non-teaching positions in business or industry. This major consists of 29 semester hours in mathematics including completion of the final comprehensive examination (MATH 480). The Bachelor of Science degree requires completion of at least a minor program in a supporting area in conjunction with the major. Students must complete 36 hours of essential studies including MATH 165, COMM 110, ENGL 110, and ENGL 120 or ENGL 125.

Core Requirements:

- MATH 105 Trigonometry................. 2 SH
- MATH 166 Calculus II ................. 4 SH
- MATH 265 Calculus III ............... 4 SH
- MATH 323 Probability and Statistics.... 3 SH
- MATH 389 Modern Geometry........... 3 SH
- MATH 412 Differential Equations ...... 3 SH
- MATH 420 History and Philosophy of Math.. 3 SH
- MATH 435 Theory of Numbers .......... 3 SH
- MATH 443 Algebraic Structures with Programming for Majors .......... 3 SH
- MATH 480 Comprehensive Review/Exam ....1 SH

Total 29 SH