

# MAYVILLE STATE UNIVERSITY

Mathematics Education Online  
*Bachelor of Science in Education Online*

## 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 25, 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.

## Online

Through the **completely online course rotation**, you can balance work, family and coursework demands as you complete this degree. While most online classes are asynchronous, which means you are not required to login at designated class times, your online courses are not self-paced. You will complete weekly assignments throughout the semester. You may begin coursework in fall, spring, or summer sessions. Mathematic courses follow a specific rotation however, and not all required courses are offered every semester.

## Success

The business administration minor allows you to explore mathematical applications in the business world. We also have internship opportunities to give you real, hands-on learning experiences and make your resumé stand out. General science, accounting, library media & information science, and special needs minors are also available completely online. Earning your bachelor's degree will allow you to explore new teaching-focused career opportunities. You will be a part of over 125 years of Mayville State history in teacher preparation.

## Value

Mayville State's online Bachelor of Science in Education (B.S. Ed.) Mathematics Education degree program has been ranked among the best online math programs in the nation by TheBestSchools.org (2020), College Choice (2020), and Online U (2020). Selection was based on weighted factors, including academic excellence, course offerings, faculty strengths, and reputation. **According to AffordableColleges.com, the program is ranked #3 in the U.S. In a review of schools across the nation, MSU's program stood out in both quality and affordability.**

We pride ourselves on being transfer-friendly, affordable, and a unique opportunity for part-time learners. Your helpful program advisor will recommend classes and answer any questions.

## The Program

MSU's mathematics education program provides you with the knowledge, skills, and techniques that are essential for teaching secondary mathematics in grades 5-12. You'll develop an awareness of the vital connections between mathematical topics and their real world applications. The online mathematics education program, with a minor in business administration, accounting, special needs, library media & information science, or general science, is a transfer student-oriented program, geared to working adults.

## Advantages

**Affordable.** MSU is a fully accredited, public university. Total online tuition and fees for this **unique online degree opportunity are highly competitive and affordable.**

**Transfer-Friendly.** Your transfer credits do not expire! Coursework previously earned from accredited institutions will be accepted. Small class sizes will allow you access to your instructors, and you'll be able to get the attention you need while strengthening the foundation of your education in mathematics and teaching.

**Employment options.** Numerous teaching and nonteaching career opportunities are available. In addition to secondary teaching careers, graduates from MSU's mathematics education program will be prepared for career opportunities as accountants, actuaries, bankers, college administrators, economists, tax managers, computer technicians, statisticians, demographers, system analysts, or chief financial officers. Students will 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 is a minimum of 125.**

Students planning to teach at the secondary level (in grades 5-12) must complete a major, 36 hours of essential studies courses, the mathematics core requirements listed below, and the secondary professional courses required for teacher certification.

All math education majors must complete a minor program or second major, except students with a previously earned Bachelor's degree. Teacher certification also requires completion of EDUC 483-Secondary Methods for Mathematics, and EDUC 426-Reading in the Content Area. Pre-requisite courses, MATH 165 (Calculus I), COMM 110, ENGL 110, ENGL 120 or ENGL 125, GEOG 103, and PSYC 111 are required, as well.

### Core Requirements:

MATH 105	Trigonometry	2 SH
MATH 166	Calculus II	4 SH
MATH 265	Calculus III	4 SH
MATH 323	Probability & 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	Mathematics Comprehensive	1 SH

**Total 29 SH**

## Secondary Professional Education

### Core:

EDUC 250	Introduction to Education	3 SH
EDUC 272	Educational Technology	2 SH
EDUC 290	Theories of Learning & Mgmt	2 SH
EDUC 380	Teaching English Lang. Learners	2 SH
EDUC 381	Human Relations & Cult. Diversity	3 SH
EDUC 390	Special Needs in Inclusive Environ	3 SH
EDUC 400	Student Teaching	10 SH
EDUC 401	Elec. Port., Assessment/Seminar	2 SH
EDUC 422	Educational Assessment	2 SH
EDUC 426	Reading in the Content Area	2 SH
EDUC 480	General Methods for Sec. Educ	4 SH
EDUC 480L	General Methods Field Secondary	1 SH
EDUC 483*	Secondary Methods for Math	3 SH
EDUC 401S	Pre-Student Teaching Seminars	1 SH
PSYC 255	Child and Adolescent Psychology	3 SH

**Total 44 SH**

## Business Administration Minor

### Core Requirements: (22 S.H.):

ACCT 200	Elem of Accounting I	3 SH
ACCT 201	Elem of Accounting II	3 SH
BUSN 214	Business Communication	3 SH
BUSN 305	Foundations of Entrepreneurship	3 SH
BUSN 325	Management Theory & Research	3 SH
BUSN 352	Marketing Theory & Research	3 SH
BUSN 391	Professional Development	1 SH
BUSN 454	Human Resource Management	3 SH

## General Science Minor

### Select from (20 S.H.):

Eight credit hours in any two of the fields of Biology, Chemistry, Earth Science, or Physics and four hours in a third area. SCNC 101 Natural Science, SCNC 102 Physical Science, and SCNC 115 Everyday Chemistry and Physics can not be used to complete the minor. The selection of courses needs to be approved by the chair for Science and Mathematics.

## Special Education Minor

### Core Requirements (20 S.H.):

\* Note that this minor does **not** lead to certification in Special Ed.

SPED 382	Intellectual Disabilities	3 SH
SPED 384	Emotional Disturbance	3 SH
SPED 386	Learning Disabilities	3 SH
SPED 387	Learning Disabilities Practicum	2 SH
SPED 388	Autism Disorders	3 SH
SPED 389	Foundations of Special Education	3 SH
SPED 396	Special Education Law	3 SH

**Total Core: 20 SH**

Electives: (minimum 9 semester hours)

Please see the Mayville State Academic Catalog for a list of classes to select from to achieve the minimum of 9 semester hours

**Total: 20 SH**

Other minors available online include: Accounting and Library Media & Information Science. Please speak with an online advisor to learn more.

North Dakota is part of the National Association of Directors of Teacher Education and Certification (NASDTEC) Interstate agreement. Most states accept our teacher education program graduates for licensure, but additional requirements for licensure may be required. Students seeking licensure in states other than North Dakota should contact the appropriate licensing board in the state in which they are pursuing licensure. The Enrollment Center and Teacher Education Division will work with out of state students on an individual basis to determine licensing requirements. Please speak with your advisor about your plan for out of state licensure.

Contact the advising office for a free transfer credit analysis and consultation.

Zach Gadbery

Recruiter, Academic Advisor, VA Certifying Official

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