



# Mathematics Education

## About this Composite Major

Teaching mathematics is an interesting and rewarding career choice. This is a critical skill for all learners as mathematics is the foundation for all science, technology, and engineering programs. There is an urgent need for math teachers, and graduates will enter a field with numerous career opportunities.

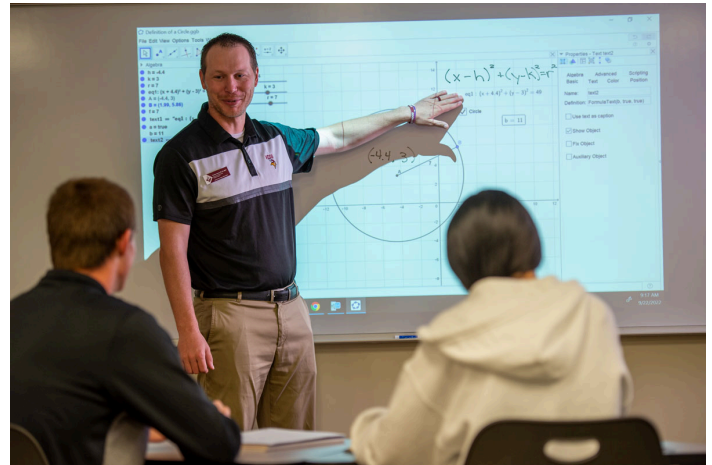
## Meet a Student



I chose to attend VCSU because I liked the smaller campus. I also enjoyed how friendly everyone on campus was. It truly felt like a second home. I would encourage any student to attend VCSU because the people are amazing. People on campus care about you and celebrate accomplishments, even small ones. You truly have an opportunity to become a difference maker on campus. - Kadie Anderson '19, Linton, ND; math teacher.

*I was able to complete my Math Education major while competing in college volleyball. The help and support that this education program provided me has helped me to be successful in my current teaching career. I can't thank VCSU enough for the great experiences! #WeAllRow. - Rachel Hummel '16, Fargo, ND; math teacher.*

## Career Opportunities



**In recent years, VCSU graduates in Math Education have enjoyed 100% job placement and most have been under contract with a school district prior to graduation.** Also, math education majors are often sought by employers outside of education who recognize that students successfully completing a math education degree possess strong analytical skills, people skills, and activity management skills. These characteristics are sought by government agencies, industry, and business.

## Program Highlights



- Coursework available face-to-face on campus or fully online
- Select mathematics coursework designed specifically for teacher education majors



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- Cutting-edge, technology-rich instruction utilizing the latest in mathematics software
- Low student-to-professor ratio and individualized academic advising
- FREE digital math textbooks

### Accreditation

- Council for the Accreditation of Educator Preparation (CAEP)

### Teacher Education Requirements

Students are typically admitted into Teacher Education during their sophomore year or the beginning of their junior year of college. This program requires a minimum cumulative GPA of 2.75 and successful completion of the Praxis CORE test. Additional criteria for Admission to Teacher Education can be found at the following website: [www.onestop.vcsu.edu](http://www.onestop.vcsu.edu) (<https://onestop.vcsu.edu/support/solutions/articles/10000052001-teacher-education/>).

### Contact Information

#### Department Chair and Faculty Contact

Dr. Jamie Wirth, [jamie.wirth@vcsu.edu](mailto:jamie.wirth@vcsu.edu), (701) 845-7734

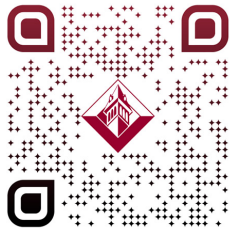
#### Department Location

Rhoades Science Center 132, (701) 845-7645

#### Schedule your visit today!

<http://visit.vcsu.edu/>

(701) 845-7101 or (800) 532-8641



Learn more  
about studying  
Math Education  
at Valley City  
State University

### Plan of Study

#### First Year

Fall	Credits	Spring	Credits
COMM 110 or 212 (Gen Ed)	3	ENGL 120 or 125 (Gen Ed)	3
ENGL 110 (Gen Ed)	3	Lab Science (Gen Ed)	4
HPER 100 (Gen Ed)	2	PSYC 111 (Gen Ed)	3
Lab Science (Gen Ed)	4	MATH 165 (Gen Ed)	4
MATH 107 (if Math 165 Calculus pre-req not yet satisfied)	4	MATH 210	3
UNIV 150	1		
	<b>17</b>		<b>17</b>

#### Second Year

Fall	Credits	Spring	Credits
Art and Music (Gen Ed)	3	EDUC 240	3
EDUC 250	3	EDUC 283	3
Literacies (Gen Ed)	3	MATH 265	4
MATH 166	4	MATH 314	3
SE 110 (Gen Ed)	3	MATH 330	3
	<b>16</b>		<b>16</b>

#### Third Year

Fall	Credits	Spring	Credits
EDUC 351	1	EDUC 300	2
EDUC 450	2	EDUC 375	2
Elective	2	MATH 313	3
MATH 266	3	MATH 321	3
MATH 340	4	MATH 400	2
MATH 490	3	Social Science (Gen Ed)	3
	<b>15</b>		<b>15</b>

#### Fourth Year

Fall	Credits	Spring	Credits
Additional Humanities or Social Science (Gen Ed)	2	EDUC 480	10
EDUC 352	1		
EDUC 400	2		
MATH 208	3		
MATH 410	3		
MATH 491	1		
PSYC 250	3		
	<b>15</b>		<b>10</b>

**Total Credits 121**

Please note: This plan is intended for general information only. Students are strongly encouraged to meet with their academic advisor each semester before registration.



## Learning Outcomes

The following outcomes are based on the North Dakota Education Standards and Practices Board State Program Approval Standards.

1. **Content and Computation:** Students can demonstrate mathematical proficiency in course-level content-specific learning outcomes for all mathematics courses within the program. This includes the application and demonstration of computational and algorithmic problem-solving techniques.
2. **Communication:** Students can read, interpret, write about, and talk about mathematics.
3. **Technology:** Students can use mathematics technologies to represent, create, solve, and analyze mathematical concepts.
4. **Pedagogical Content Knowledge:** Students can demonstrate the ability to integrate mathematical content knowledge with knowledge of secondary mathematics standards & curriculum, general pedagogical practices, and knowledge of learners and their characteristics.
5. **Dispositions:** Students can demonstrate the professional dispositions required of a classroom teacher.