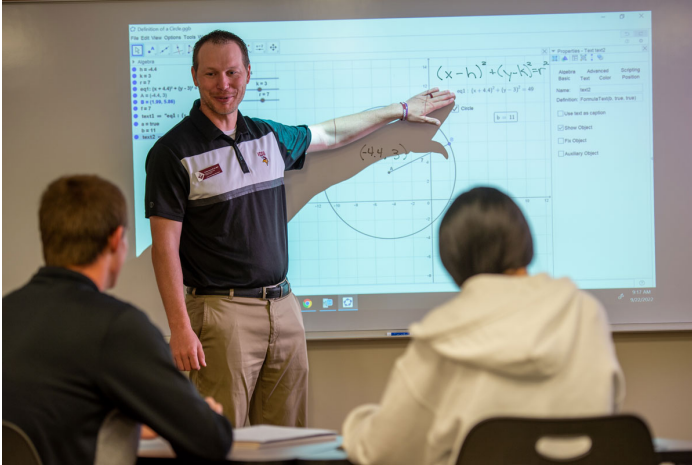# Mathematics

About this Composite Major

Mathematics is the foundation for all science, technology, and engineering programs. Mathematical sophistication is a fundamental skill for a technical society like ours. This major leads to careers in business, industry, and government, as well as graduate study in a large variety of disciplines. There is plentiful demand in the job market for individuals skilled in mathematics.

Meet a Student

I just really like math. Also, I enjoy how small the math major is at VCSU. With smaller class sizes, I can spend more time asking questions of my classmates and my professors. VCSU is helping me reach my goals by providing me with a strong educational foundation. I love how close-

knit everything feels and is. The staff and faculty know you by name and the campus harbors the feeling of a small town where everyone has each other's backs. It feels like home." - Madison Yoder, Math Education major

Career Opportunities

Math majors often pursue careers in:

- Engineering
- Statistics
- Economics
- Cryptography
- Actuarial Sciences
- Financial Analysis

Program Highlights

- Coursework available face-to-face on campus or courses can be taken fully online
- Cutting-edge, technology-rich instruction utilizing the latest in mathematics software
- Low student to professor ratio and individualized academic advising
- FREE digital math textbooks

Contact Information
Department Chair and Faculty Contact

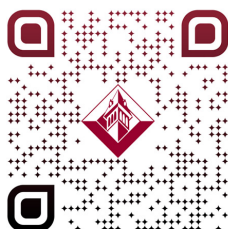Dr. Jamie Wirth, jamie.wirth@vcsu.edu, (701) 845-7734

Department Location
Rhoades Science Center 132

Schedule your visit today!
http://visit.vcsu.edu/

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

Learn more about studying Math 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 or 212 (Gen Ed)	2	MATH 165 (Gen Ed)	4
Lab Science (Gen Ed)	4	MATH 210	3
MATH 107 (if Math 165 Calculus pre-req not yet satisfied)	4		
UNIV 150	1		
	17		14

Second Year

Fall	Credits	Spring	Credits
Art and Music (Gen Ed)	3	CIS 170 or CSCI 289	3
Literacies (Gen Ed)	3	MATH 265	4
MATH 166	4	MATH 311	3
MATH/SCI/CSCI Elective	3	MATH 330	3
MATH/SCI/CSCI Elective	3	Elective	3
	16		16

Third Year

Fall	Credits	Spring	Credits
MATH 266	3	MATH 321	3
MATH 340	4	MATH 400	2
Minor Course/Elective	3	MATH/SCI/CSCI Elective	4
Minor Course/Elective	3	Elective	3
Social Science (Gen Ed)	3	Social Science (Gen Ed)	3
	16		15

Fourth Year

Fall	Credits	Spring	Credits
Additional Humanities or Social Science (Gen Ed)	2	MATH 497	3-12
MATH 208	3	Elective	3
MATH 491	1	Elective	3
MATH 410	3	Elective	3
Elective	3		
Computer Programming Course	3		
	15		12-21

Total Credits 121-130

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

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.