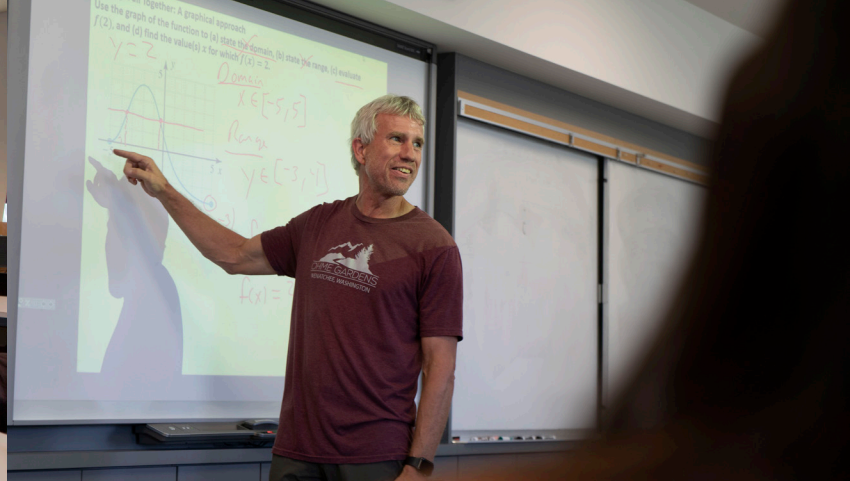


## BACHELOR OF SCIENCE MATHEMATICS

**Prepare to become a leader through Heritage University's Mathematics program.**

If you enjoy math, your career opportunities are numerous. You thrive on solving problems and are eager to make sense of the most advanced equations. There is virtually no career that wouldn't suit a math major who can think independently, creatively and critically.



## DEGREE OFFERINGS

**BACHELOR OF ARTS, B.A.  
Mathematics Education  
(5-12 Credential)**

**Mathematics**

## WHAT COULD YOU DO?

Mathematics instructor  
Actuarial  
Web developer  
Statistician  
Financial analyst  
Cryptography  
Finance  
Data science  
Graduate studies

## ALUMNI EMPLOYERS

Yakima Valley Community  
College  
Grandview School District  
Wells Fargo  
AKQA  
Sunnyside School District  
Mabton School District  
Washington University - Ph.D.  
studies  
Entrepreneur

## ABOUT THE PROGRAM

Our Mathematics program at Heritage offers a personalized environment and focuses on techniques for exploring and communicating quantitative and spatial relationships. Blending traditional and technology-based skills, you'll gain a broad understanding of mathematical concepts numerically, symbolically, algorithmically and graphically. You will benefit from faculty interaction and guidance, with plenty of one-on-one attention, to help you progress smoothly and form a clear path to your future. In addition, there are opportunities to conduct original research outside of your regular curriculum.

Heritage has two mathematics paths for you to choose from, the B.A. in mathematics education, which prepares students to teach mathematics at the middle school through high school levels; or the B.A. in mathematics, which can lead to careers in business, law, medicine or other professional fields. Businesses will recruit mathematics majors because of their analytical and problem-solving skills. Additionally, many mathematics majors pursue advanced degrees in such fields as mathematics, mathematics education, statistics, operations research, computer science and the sciences.

**"Majoring in Mathematics was one of the best decisions I made in my life."**

Mathematics taught me more than just math, it gave me a strong foundation in logic and problem solving, which has helped me in every aspect of my life. For those who enjoy the rigorous nature of mathematics and the strict application of logic, I encourage you to pursue that enjoyment to create a solid foundation that will be with you every step of your life."

- Tyler Allen, B.A., Mathematics (2010), Web Developer, AKQA







## SAMPLE COURSE GUIDE FOR B.A. MATHEMATICS (even-year start)

Courses in bold are part of the *GENERAL UNIVERSITY COURSE REQUIREMENTS*. This is a suggested course guide and may change as needed.

FRESHMAN YEAR FIRST SEMESTER		Credits	SECOND SEMESTER		Credits
<b>UNIV 101</b>	<b>Foundations for Success I</b>	2	<b>ENG 102</b>	<b>English Composition II</b>	3
<b>ENG 101</b>	<b>English Composition I</b>	3	MATH 221	Intro to Stats	4
MATH 212	Calculus I	5	MATH 213	Calculus II	5
CPSC 202	JAVA I	3	<b>HIS 102W</b>	<b>World Civilization II</b>	3
<b>FINE ARTS</b>		3			
		16			15

SOPHOMORE YEAR FIRST SEMESTER		Credits	SECOND SEMESTER		Credits
MATH 312	Calculus III	3	UD Elective MATH		3
<b>PHIL 210</b>	<b>Logic &amp; Critical Reasoning</b>	3	CPSC 202	Discrete Math	3
LAB SCIENCE		4	LAB SCIENCE		4
<b>WORLD LANGUAGE</b>		4	<b>HUMANITIES</b>		3
		14			13

JUNIOR YEAR FIRST SEMESTER		Credits	SECOND SEMESTER		Credits
MATH 335	Linear Algebra & Differential Equations I	4	MATH 336	Linear Algebra & Differential Equations II	4
MATH 462	Intro to Real Analysis	3	Upper Division Elective		6
<b>SOCIAL SCIENCE</b>		3	FREE ELECTIVE		6
Upper Division Elective		3			16
FREE ELECTIVE		3			
		16			

SENIOR YEAR FIRST SEMESTER		Credits	SECOND SEMESTER		Credits
MATH 410W	Abstract Algebra I	3	MATH 415W	Abstract Algebra II	3
Upper Division MATH		3	MATH 495W	Senior Project	3
Upper Division Elective		6	Upper Division MATH		3
FREE ELECTIVE		3	Upper Division Elective		3
		15	FREE ELECTIVE		3
					15

**TOTAL: 120 CREDITS**

## SAMPLE COURSE GUIDE FOR B.A. MATHEMATICS EDUCATION (even-year start)

Courses in bold are part of the *GENERAL UNIVERSITY COURSE REQUIREMENTS*. This is a suggested course guide and may change as needed.

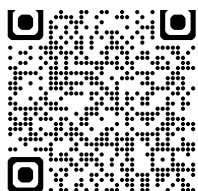
FRESHMAN YEAR FIRST SEMESTER			Credits	SECOND SEMESTER			Credits
<b>UNIV 101</b>	<b>Foundations for Success I</b>		2	<b>ENG 102</b>	<b>English Composition II</b>		3
ENG 101	English Composition I		3	CPSC 221	Intro to Stats		4
MATH 212	Calculus I		5	MATH 213	Calculus II		5
CPSC 202	JAVA I		3	<b>HIS 102W</b>	<b>World Civilization II</b>		3
<b>PSY 101</b>	<b>Intro to Psychology</b>		3				15
			16				

SOPHOMORE YEAR FIRST SEMESTER			Credits	SECOND SEMESTER			Credits
MATH 335	Linear Algebra & Differential Equations I		4	MATH 336	Linear Algebra & Differential Equations II		4
PHIL 210	Logic & Critical Reasoning		3	CPSC 202	Discrete Math		3
LAB SCIENCE			4	<b>FINE ARTS</b>			3
<b>WORLD LANGUAGE</b>			4	<b>HUMANITIES</b>			3
			15	FREE ELECTIVE			3
							16

JUNIOR YEAR FIRST SEMESTER			Credits	SECOND SEMESTER			Credits
MATH 462	Intro to Real Analysis		3	MATH 413	History of Math		3
MATH 354W	Methods Tch Math		3	BLE 413W	ELL Methodology & Assessment		3
ED 304	Tch Pre Orientation		0	ED 410B	Issues of Abuse		1
ED 305CW	Foundations of Ed & Lm		2	ED 343	Innovation by Design		3
ED 315B	Intro to Curr, Mng, Meth		3	FREE ELECTIVE			6
BLE 311	Struct of Lng		2				16
			13				

SENIOR YEAR FIRST SEMESTER			Credits	SECOND SEMESTER			Credits
MATH 410W	Abstract Alg I		3	MATH 436	Adv Euclidean Geo		3
MATH 322	Probability & Stats		2	ED 410D	Clinical Practice Seminar		1
MATH 454	Transformational Geo		2	ED 481S	Secondary Clinical Practice		10
ED 347D	Exceptional Learners		2	ED 496BW	Senior Capstone Project		2
ED 395AW	Advanced Literacy		3				16
FREE ELECTIVE			3				
			15				

**TOTAL: 120 CREDITS**



To get started on your career today, visit us online at [heritage.edu/Mathematics](https://heritage.edu/Mathematics) or call (509) 865-0440.