

# Mathematics (BA) (BS)

**Department:** Mathematics & Applied Mathematics

**Type:** Major

## Requirements for the Bachelor of Arts in Mathematics

The listed courses below and additional courses in Math numbered 2xx/3xx to total 35 s.h. Note that a maximum of 3 s.h. of Math 380: Teaching Assistantship may count toward the mathematics major.

Item #	Title	Credits
MATH 211	INTRO CALC/ANALYTIC GEOMETRY I (Q)	4
MATH 212	INTRO CALC/ANALYTIC GEOMETRY II (Q)	4
MATH 231	DISCRETE MATHEMATICAL STRUCTURES(Q)	3
MATH 303	MULTIVARIABLE CALCULUS	3
MATH 306	ORDINARY DIFFERENTIAL EQUATIONS (Q)	3
MATH 322	LINEAR ALGEBRA (Q)	3
	MATH 396 or MATH 398	3
MATH 401	SENIOR SEMINAR (M)	3

## Requirements for the Bachelor of Arts in Mathematics with Math Education Emphasis 41 semester hours

The committee formed for evaluating the student's senior project will include a faculty member from the education department. The student's senior project must be in the area of mathematics education.

Item #	Title	Credits
ED 238	METHODS TEACHING MATH-ELEM LEV (Q)	3
MATH 211	INTRO CALC/ANALYTIC GEOMETRY I (Q)	4
MATH 212	INTRO CALC/ANALYTIC GEOMETRY II (Q)	4
MATH 221	GEOMETRIES & HISTORY OF MATH (Q)	3
MATH 231	DISCRETE MATHEMATICAL STRUCTURES(Q)	3
MATH 233	STATISTICAL METHODS & THEORY I (Q)	3
MATH 303	MULTIVARIABLE CALCULUS	3
MATH 322	LINEAR ALGEBRA (Q)	3
MATH 380	TEACHING ASSISTANT FOR	3
MATH 398	ABSTRACT ALGEBRA I (Q)	3
MATH 401	SENIOR SEMINAR (M)	3
ED 115	FOUNDATIONS OF EDUCATION (T)	3

## Recommended Programs

### For teachers of mathematics:

Students at Mary Baldwin University may obtain a BA in Mathematics with a Math Education emphasis. Students in this program are encouraged to apply to be math tutors and are required to sign up for Math 380, a teaching assistantship in mathematics.

## Requirements for the Bachelor of Science in Mathematics

All of the requirements listed for the BA, plus the following:

MATH 2xx/3xx not counted in the BA. One other 200 or 300-level laboratory science course and the listed courses below.

<b>Item #</b>	<b>Title</b>	<b>Credits</b>
PHYS 201	GENERAL PHYSICS I (NQ)	4
PHYS 202	GENERAL PHYSICS II	4