Mathematics (BA) (BS)

Joe Johnson, Department Chair

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The mathematics curriculum at Mary Baldwin emphasizes the development of a student's ability to think and engage in the process of problem solving. Techniques associated with logic, analysis, data manipulation, computing, pedagogy, and the understanding of mathematical assumptions and structures are taught. Students will be exposed to both pure and applied mathematics, gaining analytical and practical skills necessary for succeeding in industry, as an educator, or in graduate school.

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.

Item #	Title	Credits
PHYS 201	GENERAL PHYSICS I (NQ)	4
PHYS 202	GENERAL PHYSICS II	4