MATHEMATICS
Bachelor of Science
School of Mathematics, Science & Engineering

Program Overview

The Bachelor of Science in Mathematics degree is designed to support those students whose career goals require a strong mathematical foundation. The required courses provide students with a solid theoretical foundation. A variety of elective courses provides students with knowledge and skills relevant to their career choices. The requirement of a minor establishes connections to other fields where mathematics is applicable. This degree prepares students for advanced study in mathematics or other mathematics intensive subjects, and for jobs requiring strong quantitative and problem solving skills. All full-time mathematics and statistics faculty members serve in this program.

Career Opportunities

Mathematicians are in high demand, and this demand is expected to increase. In addition to a career in teaching, graduates can also pursue work in the following areas:

- Advanced study at graduate level in mathematics or other related fields
- Actuary work which combines mathematics and statistics with concepts in finance and insurance
- Operations Research, an interdisciplinary branch of mathematics which uses mathematical methods to arrive at optimal decisions to problems in maximizing or minimizing things, such as costs or profits
- Mathematical Biology or Biomathematics, an interdisciplinary field which uses mathematics to model natural and biological processes.
- Cryptography, branch of mathematics which studies hiding information such as ATM card and computer passwords.
- Statisticians

Contact

For more information on careers with mathematics degree, please visit
www.uiw.edu/math/mathcareers.html

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www.uiw.edu/math

Bachelor of Science in Mathematics
SCHOOL OF MATH, SCIENCE, AND ENGINEERING
2015-2017

Freshman Year: Fall	Hrs.	Freshman Year: Spring	Hrs.
ENGL 1311 Composition I	3	ENGL 1312 Composition II	3
PHIL 1381 Intro to Philosophy	3	PHIL 3312 Logic	3
MATH 2312 Calculus 1	3	DWHP 1200	2
MATH 2322 Linear Algebra	3	Physical Education PE Activity Course	1
MATH 2340 Programming (Not Math Elective)	3	MATH 2313 Calculus 2	3
		MATH 2303 Intro Prob & Stat (Math Elective)	3
Total hours	15	Total hours	15
Sophomore Year: Fall		Sophomore Year: Spring	
ENGL 2310 World Lit	3	RELS 1305, 1315, 1325, 1335 or 1327H	3
Fine Arts Core	3	History Core	3
MATH 3320 Foundation of Higher Math	3	Math 2314 Differential Equation	3
MATH 3314 Calculus 3	3	Math 3325 Abstract Algebra	3
Math or general electives	3	Math Upper Level Elective	3
Total hours	15	Total hours	15
Junior Year: Fall		Junior Year: Spring	
Social Sciences	3	PHYS 2305/2105 Physics I	4
Modern Language I	3	Modern Language II	3
Math Upper Level Elective	3	Math 3325 Intro Real Analysis	3
Minor	3	Math Upper Level Elective	3
Minor	3	Minor	3
Total hours	15	Total hours	16
Senior Year: Fall		Senior Year: Spring	
Math Upper Level Elective	3	Math Upper Level Elective	3
Math Upper Level Elective	3	Math Upper Level Elective	3
Minor	3	Minor	3
Minor	3	Math or general electives	3
Math or General Upper Level Elective	3	Math or general electives	2
Total hours	15	Total hours	14

Core Curriculum - Total Hours 39
Major - Total Hours 81
Degree - Total Hours 120