

B.S./B.A. Degree Mathematics

Pure Mathematics



Suggested 4-year plan of study

First Year

Fall

Course Number	Course Title	Credits (16)
ENGL 1100	Writing I (W)	3
FYE 1018	FYE Seminar: Cracking the Code (R & IL)	3
MATH 1300 OR MATH 2300	Precalculus (QR) OR Calculus I (QR)	4
	General Education (exploration)	3
	General Education (exploration)	3

Spring

Course Number	Course Title	Credits (14)
ENGL 1200	Writing II (W/IL)	3
MATH 1850	Freshman Seminar in Mathematics	1
MATH 2300	Calculus I (QR) OR	4
MATH 2400	Calculus II (PL)	4
MATH 2800 OR DATA 2000	Statistical Analysis OR Principles of Data Analysis	3
	General Education (WS)	3

Sophomore Year

Fall

Course Number	Course Title	Credits (15-16)
CSC 1500	Computer Science I OR General Education (exploration)	3
MATH 2400	Calculus II (PL) OR General Education (exploration)	4 or 3
MATH 2500	Introduction to Mathematical Thought	3
MATH 2600	Linear Algebra General Education (exploration)	3

Spring

Course Number	Course Title	Credits (15)
MATH 3350	Multivariate Calculus	3
MATH 2550	Symbolic Computation Mathematics	3
	Course from Pure Math Option A	3
	General Education (exploration)	3
	Course in minor	3

Junior Year

Fall

Course Number	Course Title	Credits (15)
MATH 3000 OR MATH 3200	Geometry OR History of Mathematics	3
MATH 4000 OR MATH 4300	Real Analysis OR Abstract Algebra	3
MATH XXXX	Advanced Mathematics Elective	3
	Course from Pure Math Option A	3
	General Education (exploration)	3

Spring

Course Number	Course Title	Credits (15)
MATH XXXX	Advanced Mathematics Elective	3
MATH XXXX	Advanced Mathematics Elective	3
	Advanced Mathematics Elective	3
	Free Elective OR	
	Course from Pure Math Option B	3
	Free Elective	3

Senior Year

Fall

Course Number	Course Title	Credits (15)
MATH 4000 OR	Real Analysis OR	
MATH 4300	Abstract Algebra	3
MATH 4600 OR	Capstone in Mathematics OR	
MATH 4950	Internship	3
MATH XXXX	Advanced Mathematics Elective	3
	Free Elective OR	
	Course from Pure Math Option B	3
	Free Elective	3

Spring

Course Number	Course Title	Credits (15)
MATH XXXX	Advanced Mathematics Elective	3
	Course from Pure Math Option B	3
	Free Elective	3
	Free Elective	3
	Free Elective	3

Completion of 120 credits is required for graduation

General Education

Foundation (3 credits each)

- Reading & Info Literacy First-Year Exper. (R & IL)
- Writing (W): Writing I
- Writing & Info. Literacy (W & IL): Writing II
- Quantitative Reasoning (QR)
- World Languages, Speaking and Listening (WS)

Exploration (3 credits each)

- Civic Learning (CV)
- Diverse Perspectives (DP)
- Ethical Reasoning (ER)
- Fine Arts Expression & Analysis (FA)
- Historical Inquiry & Analysis (HI)
- Literary Inquiry & Analysis (LI)
- Personal Wellness (PW)
- Procedural & Logical Thinking (PL)
- Scientific Inquiry & Analysis (SI)

General Education: MAJ

There may be major courses that have been approved to fulfill up to 3 General Education requirements (at least 9 credits). Varies by major and concentration.