

B.S./B.A. Degree Mathematics Secondary Education (8-12)



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 1500	Informal Number Theory	3
MATH 1300 OR	Precalculus (QR) OR	4
MATH 2300	Calculus I (QR)	4
SPCH 1000 OR	Introduction to Speech Communication (WS) OR	3
SPCH 1100	Argumentation and Debate (WS)	3

Spring

Course Number	Course Title	Credits (14)
EDUC 1860	Introduction to Education	3
ENGL 1200	Writing II (W & IL)	3
MATH 1600	Informal Mathematical Modeling	3
MATH 1850	Freshman Seminar in Mathematics	1
MATH 2300 OR	Calculus I (QR) OR	4
MATH 2400	Calculus II (PL)	4

Sophomore Year

Fall

Course Number	Course Title	Credits (15-16)
EDUC 2011	Diversity in Education (5-12) (DP)	3
MATH 2400	Calculus II (PL) OR	4 or 3
	General Education (exploration)	
MATH 2500	Introduction to Mathematical Thought	3
MATH 2600	Linear Algebra	3
	General Education (exploration)	3

Spring

Course Number	Course Title	Credits (16)
EDUC 2012	Teaching Adolescent Learners (5-12)	3
DATA 2000 OR	Principles of Data Analysis OR	3
MATH 2800	Statistical Analysis	3
MATH 2550	Symbolic Computational Mathematics OR	3
	General Education (exploration)	
MATH 3350	Multivariate Calculus	4
	General Education (exploration)	3

Junior Year

Fall

Course Number	Course Title	Credits (15)
MATH 3000	Geometry	3
MATH 3150 OR	Number Theory OR	3
MATH 4400 OR	Operations Research OR	3
MATH 4450	Mathematical Modeling	3
MATH 4200	Probability and Statistics I	3
SPED 3800	Inclusive Instruction	3
	General Education (exploration)	3

Spring

Course Number	Course Title	Credits (15)
MATH 2550	Symbolic Computational Mathematics	3
MATH 3550	Ordinary Differential Equations	3
MATH 3010	Method of Teaching Mathematics I	3
CSC 1500	Computer Science I	3
MATH 3200	History of Mathematics	3

Senior Year

Fall

Course Number	Course Title	Credits (16-17)
EDUC 3122	Sheltered English Immersion	3
EDUC 4850	Methods of Teaching Mathematics II	3
MATH 3150 OR	Number Theory OR	
MATH 4400 OR	Operations Research OR	3
MATH 4450	Mathematical Modeling	
	General Education (exploration)	3
	Free Elective	3
	Free Elective	1 or 2

Spring

Course Number	Course Title	Credits (12)
MATH 4012	Practicum Seminar	3
MATH 4860	Practicum in Secondary School I	4.5
MATH 4870	Practicum in Secondary School II	4.5

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.