

University of Iowa Catalog 2015-2016

Mathematics, Program B, B.S.

Sample Plan of Study

First Year Fall Semester		Semester Hours
RHET:1030	Rhetoric (General Education [GE] requirement) ¹	4
MATH:1850	Calculus I	4
PSY:1001	Elementary Psychology (GE Social Science)	3
CSI:1300	College Expectations (required)	2
	Elective ³ or World Language, Elementary I (GE) ⁴	3-5
Total Semester Hours		16-18
Spring Semester		
ENGL:1200	Interpretation of Literature (GE)	3
MATH:1860	Calculus II	4
	GE Elective (e.g., Historical Perspectives)	3
	Elective or World Language, Elementary II (GE)	3-5
EPLS:3000	Foundations of Education	3
Total Semester Hours		16-18
Second year Fall Semester		
MATH:2850	Calculus III	4
MATH:2700	Linear Algebra	4
PSQF:1075	Educational Psychology and Measurement	3
	Elective or World Language, Intermediate I (GE)	3-5
Total Semester Hours		14-16
Spring Semester		
STAT:3120	Probability and Statistics	4
EDTL:3090	Orientation to Secondary Education	1
EDTL:3002	Technology in the Classroom	2
EDTL:3095	Teaching Reading in Secondary Content Areas	1
MATH:2150	Foundations of Geometry	3
MATH	Required post-calculus math elective	3
	Elective or World Language, Intermediate II (GE)	3-5
Total Semester Hours		17-19

Third Year		
Fall Semester		
MATH:3720	Introduction to Abstract Algebra	4
EDTL:3533	Introduction and Practicum: Mathematics	3
	GE Elective (e.g., Natural Sciences)	3-4
CS:1210	Computer Science I: Fundamentals	4
EDTL:4900	Foundations of Special Education	3
Total Semester Hours		17-18
Spring Semester		
EDTL:3534	Methods: Middle School Mathematics	3
MATH:3770	Fundamental Properties of Spaces and Functions	3
	GE Elective (e.g., Natural Sciences)	3-4
MATH:4060	Discrete Mathematical Models	3
EDTL:3071	Secondary Classroom Management	2-3
EPLS:4180	Human Relations for the Classroom Teacher (GE Values, Society, and Diversity)	3
Total Semester Hours		17-19
Fourth Year		
Fall Semester		
	GE Elective (e.g., International and Global Issues)	3
MATH:4050	Introduction to Discrete Mathematics	3
	GE Elective (e.g., Literary, Visual, and Performing Arts)	3
MATH	Required upper-level elective OR MATH:4120 History of Math	3
EDTL:4535	Methods: High School Mathematics	3
Total Semester Hours		15
Spring Semester		
EDTL:4087	Curriculum and Student Teaching	1
EDTL:4091/4092	Observation and Lab. Practice [Student Teaching]	12
Total Semester Hours		13
Total Semester Hours:		125-136

¹General Education (GE) courses may be completed in any order unless used as a prerequisite for another course. Please talk to an advisor about the best sequencing of courses. ²Enrollment in chemistry and math courses require completion of placement exams. ³Students may use their elective courses to complete a double major, minors, or certificates. ⁴Students who have completed four years of a single language in high school have satisfied the CLAS GE World Languages requirement. Enrollment in World Languages courses requires a placement exam, unless enrolling in a first-semester level course. ⁵Required mathematical electives must include at least one upper-level course; some statistics and computer science courses can be included. Students may use their elective courses to complete a double major, minors, or certificates.