

# University of Iowa Catalog 2015-2016

## Mathematics, Program B, B.A.

### Sample Plan of Study

First Year		
Fall Semester		Semester Hours
RHET:1030	Rhetoric (General Education [GE] requirement) <sup>1</sup>	4
MATH:1850	Calculus I	4
CSI:1300	College Expectations (required)	2
	Elective <sup>3</sup> or World Language, Elementary I (GE) <sup>4</sup>	3-5
<b>Total Semester Hours</b>		<b>13-15</b>
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
<b>Total Semester Hours</b>		<b>16-18</b>
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
<b>Total Semester Hours</b>		<b>14-16</b>
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
PSY:1001	Elementary Psychology (GE Social Science)	3
	Elective or World Language, Intermediate II (GE)	3-5
<b>Total Semester Hours</b>		<b>17-19</b>

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
<b>Total Semester Hours</b>		<b>14-15</b>
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 (Spring only) or MATH:4050 Intro. to Discrete Mathematics (Fall only)	3
EDTL:3071	Secondary Classroom Management	2-3
EPLS:4180	Human Relations for the Classroom Teacher (GE Values, Society, and Diversity)	3
<b>Total Semester Hours</b>		<b>17-19</b>
Fourth Year		
Fall Semester		
	GE Elective (e.g., International and Global Issues) <i>(If MATH:4060 was not taken in Spring, MATH:4050 is required)</i>	3
	GE Elective (e.g., Literary, Visual, and Performing Arts)	3
MATH	Required post-calculus math elective	3
EDTL:4900	Foundations of Special Education	3
EDTL:4535	Methods: High School Mathematics	3
<b>Total Semester Hours</b>		<b>15</b>
Spring Semester		
EDTL:4087	Curriculum and Student Teaching	1
EDTL:4091/4092	Observation and Lab. Practice [Student Teaching]	12
<b>Total Semester Hours</b>		<b>13</b>
<b>Total Semester Hours:</b>		<b>119-130</b>

<sup>1</sup>General 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. <sup>2</sup>Enrollment in chemistry and math courses require completion of placement exams. <sup>3</sup>Students may use their elective courses to complete a double major, minors, or certificates. <sup>4</sup>Students 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. <sup>5</sup>Required 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.