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## MATH EDUCATION OPTION B.S. MATHEMATICS

### SAMPLE PROGRAM OF STUDY – MATHEMATICS: MATH EDUCATION OPTION

There is considerable flexibility in designing a program of study. The example given below is not likely to fit every situation and is provided for information as you develop your own plan with your academic advisor. All course requirements for the B.S. Mathematics, Mathematics Education Option are included in this sample plan. See the 2024-2025 Academic Catalog for details.

Fall Semester Year 1		Credits
<b>MATH 1225</b>	Calculus of a Single Variable (Pathway 5f)	4
<b>MATH 1004</b>	Discovering Mathematics I (fall only)*	1
<b>MATH 1454</b>	Intro Math Prog (fall only; coreq: MATH 1225) <sup>1</sup>	3
<b>ENGL 1105</b>	First-Year Writing (Pathway 1f)	3
	Pathway 2	3
		<b>14</b>

Spring Semester Year 1		Credits
<b>MATH 1226</b>	Calculus of a Single Variable (Pathway 5f)	4
<b>MATH 1044</b>	Discovering Mathematics II (spring only)*	2
<b>ENGL 1106</b>	First-Year Writing (Pathway 1f)	3
	Pathway 3	3
	Pathway 7 <sup>2</sup>	3
		<b>15</b>

Fall Semester Year 2		Credits
<b>MATH 2114</b>	Intro to Linear Algebra	3
<b>MATH 2204</b>	Intro to Multivariable Calculus	3
<b>MATH 2644</b>	Mathematics Tutoring <sup>3</sup>	1
	Pathway 3	3
	Pathway 6a	3
	Pathway 4 (BIOL, CHEM, GEOS, ISC, NEUR PHYS, or PSYC)	3
		<b>16</b>

Spring Semester Year 2		Credits
<b>MATH 2214</b>	Intro to Differential Equations (Pathway 5a)	3
<b>MATH 3034</b>	Intro to Proofs (prereq: C in MATH 2114)	3
	Pathway 2	3
	Pathway 6d	3
	Pathway 4 (BIOL, CHEM, GEOS, ISC, NEUR PHYS, or PSYC)	3
		<b>15</b>

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Fall Semester Year 3		Credits
<b>MATH 3124</b>	Modern Algebra	3
<b>MATH 4334</b>	College Geometry	3
<b>MATH 3/4XXX</b>	3000 or 4000-Level Math Elective <sup>4</sup>	3
	Pathway 1a	3
	Free Elective	3
		<b>15</b>

Spring Semester Year 3		Credits
<b>MATH 3144</b>	Linear Algebra I	3
<b>EDCI 2004</b>	Exploring Teaching Profession	3
<b>STAT 3005</b>	Statistical Methods or STAT 3604 (Pathway 5a)	3
	Free Elective	3
	Free Elective	3
		<b>15</b>

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Fall Semester Year 4		Credits
<b>MATH 3224</b>	Advanced Calculus	3
<b>MATH 4044</b>	History of Math (fall only)	3
<b>MATH 4625</b>	Math for Secondary Teachers (fall only)	3
<b>EDCI 5554</b>	Educating Exceptional Learners <sup>5</sup>	3
	Free Elective	3
<b>Pass Praxis II</b>		<b>15</b>

Spring Semester Year 4		Credits
<b>MATH 4626</b>	Math for Secondary Teachers (spring only)	3
<b>EDEP 5154</b>	Psych Foundations for Teachers <sup>5</sup>	3
<b>EDCI 5604</b>	Assess/Diagnosis for Math Class (spring only) <sup>5</sup>	3
	Free Elective	3
	Free Elective	3
		<b>15</b>

See next page for 5<sup>th</sup> year courses. 4<sup>th</sup> year course plans should take the 5<sup>th</sup> year into account.

<sup>1</sup> MATH 1225 is a corequisite for MATH 1454. Discuss choice of programming course with academic advisor. Other options include: CS 1044, 1054, 1064, 1114; AOE 2074; BMES 2074; ECE 2514; ESM 2074; ME 2004

<sup>2</sup> The course selected in Pathway 7 may double-count with one other Pathway Concept if the selected course is also in another Pathway Concept.

<sup>3</sup> MATH 2644 can be repeated for credit up to three times (for three total credits).

<sup>4</sup> Any 3000-level or 4000-level MATH course not used to meet other course-specific degree requirements. Math Undergraduate Policy & Curriculum Committee Approval required to use any of {4974, 4984, 4994}.

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<sup>5</sup> Choose two of {EDEP 5154, EDCI 5104, EDCI 5554, EDCI 5264}. Senior standing required to enroll in 5000-level EDCI/EDEP courses.

\* MATH 1004 and MATH 1044 are strongly recommended free electives for first-year math majors.

#### Minimum Graduation Requirements:

Credit Hours: 120  
Overall GPA: 2.0  
In-Major GPA: 2.0

**5-YEAR MASTER'S STUDENTS**

**IMPORTANT:** The courses listed below are not official M.A.Ed. requirements; they are approximations based on current requirements to help with possible future planning. The requirements for the M.A.Ed. degree may change by the time students who begin their undergraduate studies in 2024 reaches the Master's application and degree requirements.

<b>Summer after Year 4 (unofficial)</b>		<b>Credits</b>
EDCI 5104	Schooling in American Society	3
EDCI 5264	Comp Processes and Content Reading	3
		<b>6</b>

<b>Fall Semester Year 5 (unofficial)</b>		<b>Credits</b>
EDCI 5284	Advanced Curriculum and Instruction	3
EDCI 5724	Teaching in Secondary Schools I: Math	3
EDCI 5964	Field Studies in Education	3
EDCI 5914	Diversity and Multicultural Education	3
		<b>12</b>

<b>Spring Semester Year 5 (unofficial)</b>		<b>Credits</b>
EDCI 5744	Teaching in Secondary Schools II: Math	3
EDCI 5754	Internship in Education (student teaching)	9
EDCI 5784	Professional Dispositions in Math Education	3
		<b>15</b>