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## Mathematics Education Degree Option

### SAMPLE PROGRAM OF STUDY

Total of 120 credit hours required for graduation

Note: B.S. after first four years shown below; 5 years for Master's

**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.

Fall Semester Freshman		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> <sup>1</sup>	Introduction to Math Programming (fall only)	3
<b>ENGL 1105</b>	First-Year Writing, Pathway 1f	3
	Pathway 2	3
		<b>14</b>

Spring Semester Freshman		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 Sophomore		Credits
<b>MATH 2114</b>	Introduction to Linear Algebra	3
<b>MATH 2204</b>	Intro Multivariable Calculus	3
<b>MATH 2644</b> <sup>3</sup>	Mathematics Tutoring	1
	Pathway 3	3
	Pathway 4	3
	Pathway 6a	3
		<b>16</b>

Spring Semester Sophomore		Credits
<b>MATH 2214</b>	Intro to Differential Equations	3
<b>MATH 3034</b>	Intro to Proofs (Prereq: C in MATH 2114)	3
	Pathway 2	3
	Pathway 4	3
	Pathway 6d	3
		<b>15</b>

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Fall Semester Junior		Credits
<b>MATH 3124</b>	Modern Algebra	3
<b>MATH 4334</b>	College Geometry	3
<b>MATH</b>	Math Elective <sup>4</sup>	3
	Pathway 1a	3
	Free Elective	3
		<b>15</b>

Spring Semester Junior		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 Senior		Credits
<b>MATH 4044</b>	History of Math (fall only)	3
<b>MATH 4625</b>	Math for Secondary Teachers I (fall only)	3
<b>MATH 3224</b>	Advanced Calculus	3
<b>EDCI 5554</b>	Education of Exceptional Learners <sup>5</sup>	3
	Free Elective	3
		<b>15</b>

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

Pass Praxis II

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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.

<sup>2</sup> In Pathways, some courses can be used for Pathway Concept 7 plus one other Concept, but no other double-counting is permitted.

<sup>3</sup> MATH 2644 is an experiential/service learning course, offered both fall and spring, for repeat credit (up to 3 credits).

<sup>4</sup> Any 3000-level or 4000-level MATH course not used to meet other course-specific degree requirements. Students must petition the Associate Chair to use 4974, 4984, or 4994.

<sup>5</sup> Choose 2 of EDEP 5154, EDCI 5104, EDCI 5554, EDCI 5264. Senior standing required to enroll in 5000-level EDCI courses.

5-YEAR MASTER'S STUDENTS

<b>Summer after Senior</b>		<b>Credits</b>
EDCI 5104	Schooling in American Society <sup>6</sup>	3
EDCI 5264	Comp Processes and Content Reading	3
		<b>6</b>

<b>5th year 1st semester</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>5th year 2nd Semester</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>