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 2025-2026 Academic Catalog for details.

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

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

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

Spring Semester Year 2		Credits
MATH 2214	Intro to Differential Equations (Pathway 5a)	3
MATH 3034	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
		15

Fall Semester Year 3		Credits
MATH 3124	Modern Algebra	3
MATH 3214	Calculus of Several Variables	3
EDCI 2004	Exploring Teaching Profession [5]	3
	Pathway 1a	3
	Free Elective	3
		15

Spring Semester Year 3		Credits
MATH 3144	Linear Algebra I	3
MATH 3224	Advanced Calculus	3
EDCI 2574	Social Foundations of Education	3
STAT 3005	Statistical Methods or STAT 3604	3
	Free Elective	3
		15

Fall Semester Year 4		Credits
MATH 4044	History of Math (fall only)	3
MATH 4625	Math for Secondary Teachers (fall only)	3
EDEP 2374	Educational Psychology for PK-12	3
	Free Elective	3
	Free Elective	3
Pass Praxis II, Consider M.A.Ed. application deadlines		**15**

Spring Semester Year 4		Credits
MATH 4334	College Geometry (spring only)	3
MATH 4626	Math for Secondary Teachers (spring only)	3
EDCI 3144	Education of Exceptional Learners	3
	Free Elective or EDCI 5264 [6]	3
	Free Elective	3
		15

[1] MATH 1004 and MATH 1044 are strongly recommended free electives for first-year math majors.

[2] MATH 1225 is a corequisite for MATH 1454. Discuss choice of programming course with academic advisor. Other programming course options: CS 1044, CS 1054, CS 1064, CS 1114, BMES 2074, ECE 2514, ME 2004

[3] The course selected in Pathway 7 may double-count with one other Pathway Concept if the selected course is also in another Pathway Concept.

[4] MATH 2644 can be repeated for credit up to three times (for three total credits).

[5] It is recommended that students take MATH 2644 before taking EDCI 2004.

[6] Students completing the M.A.Ed. program through the accelerated BS/MS or dual enrollment option should take EDCI 5264 (Comprehending Processes and Reading in the Content Areas) in Spring Semester Year 4.

Minimum Graduation Requirements:
Credit Hours: 120
Overall GPA: 2.0
In-Major GPA: 2.0

See next page for 5th year courses.

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 2025 reach the Master's application and degree requirements.

Summer after Year 4 (unofficial)	**Credits**
EDCI 5264 Comprehending Processes & Content Reading*	3

If not already taken through Accelerated or Dual Enrollment **3**

Fall Semester Year 5 (unofficial)	**Credits**
EDCI 5204 Managing Today's Diverse Classroom	3
EDCI 5284 Advanced C & I Middle Math 4-8	3
EDCI 5724 Teaching in Middle & Secondary Schools I	3
EDCI 5754 Internship in Education	3
EDCI (TBD) Principles & Practices in PK-12 Assessment	3
	15

Spring Semester Year 5 (unofficial)	**Credits**
EDCI 5744 Teaching in Middle & Secondary Schools II	3
EDCI 5964 Field Studies in Education (student teaching)	6
EDCI (TBD) Technology	3
	12