APPROVED COMMISSION ON UNDERGRADUATE STUDIES AND POLICIES

College of Science, Department of Mathematics Bachelor of Science in Mathematics, **Mathematics Education Option** For students graduating in calendar year **2022** and for student date of entry under UG Catalog **2020-2021**

I. Pathways General Education Requirements (48 credits)		
Concept 1: Discourse.		
(1f) Foundational Discourse (6 credits).		
3		3
(1a) Advanced or Applied Discourse (3 credits).		
Concept 2: Critical Thinking in the Humanities (6 credits).		
		3
Concept 3: Reasoning in the Social Sciences (6 credits).		
3		3
Concept 4: Reasoning in the Natural Sciences (7 credits).		
4		3
Concept 5: Quantitative and Computational Thinking.		
(5f) Foundational Quantitative and Computational Thinking (8 credits).		
MATH 1225: Calculus of a Single Variable* 4 MATH 1226: Calculus of	of a Single Vari	able* 4
(5a) Advanced or Applied Quantitative and Computational Thinking (3 credits).		
3 See Statistics in Section	III	
Concept 6: Critique and Practice in Design and the Arts (6 credits = [3 in d.	esion + 3 in	arts] or [6 in
Concept 6: Critique and Practice in Design and the Arts (6 credits = [3 in de integrated design and arts]).	esign + 3 in	arts] or [6 in
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*Some courses listed on this checksheet may have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.

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III. Required Courses Specific to the Mathematics Education Option (28 credits)

Mathematics

MATH 2644: Mathematics Tutoring*		1			
MATH 3124: Modern Algebra*					
MATH 4044: History of Mathematics*					
MATH 4334: College Geometry*					
MATH 4625, 4626: Math for Secondary Teachers*					

Statistics

Statistics: 3 credits from – STAT 4105 Theoretical Statistics* STAT 4705 Statistics for Engr*	<u>Recommendation:</u> STAT 3005 or STAT 3604 may be used to satisfy this Statistics requirement <u>and</u>	3	
STAT 4714 Prob & Stat for EE*	Pathways Concept 5a.		

Education

(Required)

EDCI 5604: Assessment and Diagnosis for the Mathematics Classroom*

Choose any two (2) of the following:

	EDEP 5154: Psych Foundations for Teachers* EDCI 5104: Schooling in American Society*					
14						
s	EDCI 5264: Comp and Cont Rdg*		3			
	EDCI 5914: Multicultural Teaching ESL*		3			
Students need Senior status to enroll in 5000-level EDCI courses						

Take EDCI 5914 during Master's Program (5th year) if at all possible.

IV. Restricted Electives (6 or 7 credits)

Field Experience



Either MATH 3624: Early Teaching Experience* (4) or EDCI 3004: Pre-Education Seminar* (3).

Juniors must **apply** for this course in early September in order to get a middle/high school placement for the following spring. See Mathematics Education Program handbook for details

Mathematics Elective

If 2204 not used for degree core, 2204; if 2214 not used for Pathways and not used for degree core, 2214; otherwise, 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.

V.	V. Free Electives (Sufficient to achieve the 120 credit graduation requirement)							
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*Some courses listed on this checksheet may have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.

VI. Outcomes Assessment

Each student is required to participate in the department's Outcomes Assessment procedures as determined by each year's Undergraduate Program Committee and approved by the Chair.

VII. Minimum Hours Required for Graduation

120 Credits

VIII. Foreign Language Requirement

Students who did not successfully complete at least two years of a single foreign, classical, or sign language during high school must successfully complete six credit hours of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the hours required for graduation. Please consult the Undergraduate Catalog for details.

IX. Satisfactory Progress to Degree

Upon having attempted 36 semester credits, the student must have completed 12 credits of the Pathways General Education Requirements. Upon having attempted 72 credits (including transfer, advanced placement, advanced standing, credit by examination, and course withdrawal), the student must have completed 24 credits of the Pathways General Education Requirements. In addition, satisfactory progress toward the B.S. in mathematics requires that:

1) Within the previous two semesters, the student must pass at least one mathematics course that is used in the in-major GPA calculation.

2) Upon having attempted 45 semester credits, students must have an in-major GPA of 2.2 or above.

3) Upon having attempted 72 semester credits (including transfer, advanced placement, advanced standing, credit by examination, and course withdrawal), students must have completed the following courses with grades of C- or better: MATH 1225, 1226, 2114, 2204, 2214, and 3034, and not have taken any of these courses more than twice, including attempts ending in course withdrawal.

X. Minimum GPA Required for Graduation

Students are required to have a 2.0 GPA and a 2.0 in-major GPA for Graduation. In-major GPA for this option is computed using all MATH courses listed in II and III.