

College of Science, Department of Mathematics
Bachelor of Science in Mathematics, **Mathematics Education Option**
For students graduating in calendar year **2021**

I. Curriculum for Liberal Education (CLE) Requirements (38 credits)

Area 1: Writing and Discourse (6 credits)

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	3	
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Area 2: Ideas, Cultural Traditions, and Values (6 credits)

	3	
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	3	
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Area 3: Society and Human Behavior (6 credits)

	3	
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	3	
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Area 4: Scientific Reasoning and Discovery (8 credits*)

	4	
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	4	
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Area 5: Quantitative and Symbolic Reasoning (8 credits)

MATH 1225 Calculus of a Single Variable	4	
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MATH 1226 Calculus of a Single Variable	4	
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Area 6: Creativity and Aesthetic Experience (3 credits)

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Area 7: Critical Issues in a Global Context (3 credits)

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*Students in the Mathematics Education Option must take Area 4 courses with labs to satisfy licensure requirements.

II. Mathematics Bachelor of Science Core Courses (21 credits)

MATH 2114: Introduction to Linear Algebra*	3	
MATH 2204: Introduction to Multivariable Calculus*	3	
MATH 2214: Introduction to Differential Equations*	3	
MATH 3034: Introduction to Proofs*	3	
MATH 3144: Linear Algebra I*	3	
MATH 3224: Advanced Calculus*	3	
Computer Programming (MATH 1454* or 3054* or CS 1044* or 1114*)	3	

III. Required Courses Specific to the Mathematics Education Option (33 credits)

Mathematics

MATH 2644: Mathematics Tutoring* (2 F)	1	
MATH 3124: Modern Algebra*	3	
MATH 4044: History of Mathematics* (4 F)	3	
MATH 4334: College Geometry*	3	
MATH 4625, 4626: Math for Secondary Teachers* (4 F, S)	6	
MATH 4644: Secondary School Mathematics with Technology* (4 F)	3	
MATH 4664: Senior Math Education Seminar*	2	

Statistics

Statistics (STAT 4705* or 4105* or 4714*)	3	
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Letters in parentheses indicate course is only offered fall or spring semester; numbers indicate the year in which the course should be taken

*Some courses listed on this checksheet may have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.

Education

EDEP 5154: Psych. Foundations for Teachers*
EDCI 5784: Graduate Seminar in Education*
EDCI 5554: Educating Exceptional Learners Across the Lifespan*

3	
3	
3	

Students need Senior status to enroll in 5000-level EDCI courses

Praxis I & II must be passed before a Bachelor of Science degree in Mathematics is granted.

IV. Restricted Electives (at least 6 credits)

Field Experience

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

	3			
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Any three-credit MATH course at the 3000 or 4000 level. Students must petition the Associate Chair to use 4974, 4984, or 4994

V. Free Electives (Sufficient to achieve the 120 credit graduation requirement)

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 Head.

VII. Minimum Credits, GPA, and In-Major GPA Required for Graduation

At least 120 credits required. Students are required to have at least 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.

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 credits of a single foreign, classical, or sign language at the college level. Courses taken to meet this requirement do not count toward the credits 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 University Curriculum for Liberal Education. 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 University Curriculum for Liberal Education. 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, 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.

*Some courses listed on this checksheet may have prerequisites and/or corequisites; please consult the University Course Catalog or check with your advisor.