College of Natural Sciences and Mathematics

DEPARTMENT OF MATHEMATICS

MATHEMATICS BACHELOR OF ARTS

CLASS OF 2027

CONCENTRATION IN TEACHING MATHEMATICS

TERM 1	TERM 2	TERM 3	TERM 4	TERM 5	TERM 6	TERM 7	TERM 8
MATH 150A (GE B.4) 4 units	MATH 106 4 units	MATH 250A 4 units	MATH 280 4 units	MATH 302 4 units	MATH 335 4 units	MATH 401 3 units	MATH 402 3 units
MATH 180 4 units	MATH 107 4 units	MATH 207 4 units	MATH 338 (GE B.5) 4 units	MATH 307 4 units	MATH 350 4 units	MATH 414/471 3-4 units	MATH 407/417/430 3-4 units
MATH 151A 1 unit	MATH 151B 1 unit	GE B.1 3 units	GE D.2 3 units	MATH 380 (Upper Division Writing) 3 units	GE D.1 3 units	GE F 3 units	
GE A.1 3 units	GE A.2 3 units	GE C.2 3 units	GE B.3 1 unit	GE C.1 3 units	Upper Division GE D.3 3 units	GE E 3 units	Upper Division GE C.3 3 units
CNSM 101 (GE A.3) 3 units	GE B.2 3 units	GE C.1 or C.2 3 units	EDSC 340 3 units		American Government 3 units	Math 403A/400 level math 3 units	400 level math 3 units
15 units	15 units	17 units	15 units	14 units	17 units	15-16 units	12-13 units

37	GE lower division
6	GE upper division
57	Mathematics Required Courses
2	Mathematics Supporting Courses
6	Pick 2 of 5 Courses
9	Pick 3 courses between MATH 406–MATH 471. May substitute both MATH 403A and EDSC 340.
3	University Requirement
120	**TOTAL UNITS**

INSTRUCTIONS FOR COMPLETING THE MATHEMATICS BACHELOR OF ARTS

1. Meet with your assigned faculty advisor each semester to plan and review your academic progress.
2. Visit your College of Natural Sciences and Mathematics Student Success Team in MH 488 to review GE and graduation requirements.
3. Complete GE courses in areas A1, A2, and A3 with a C- or higher. One GE Course in B, C, D, or E must double-count as a Z course. Check your Titan Degree Audit for courses that appear in both categories.
4. **All** Mathematics courses must be completed with a grade of C or higher.
5. Apply for Graduation through your Student Center at the start of Term 7.

Mathematics B.A.

MATHEMATICS BACHELOR OF ARTS
TEACHING MATHEMATICS Concentration

The Math Major is for students who are preparing to (1) enter a graduate study in mathematics, (2) seek math-related careers in business, industry or government, or (3) pursue a career in teaching.

MATHEMATICS CORE AND SUPPORTING COURSES

- **Complete the courses listed below (41 units total)**

Course	Course Title
MATH 180	Strategies of Problem Solving (4)
MATH 150A	Calculus I (4)
MATH 151A	Calculus I Workshop (1)
MATH 106	Integral Calculus and Differential Equations (4)
MATH 107	Intro Computational Linear Algebra (4)
MATH 151B	Calculus II Workshop (1)
MATH 250A	Calculus III (4)
MATH 207	Intro Differential Equations and Linear Algebra (4)
MATH 280	Strategies of Proof (4)
MATH 307	Linear Algebra (4)
MATH 350	Advanced Calculus I (4)
MATH 380	History of Mathematics (3, upper div writing req)

- **Teaching Mathematics Concentration Requirements (33 units total)**

Teaching Mathematics Required Courses (18 units)

MATH 302	Modern Algebra (4)
MATH 335	Mathematical Probability (4)
MATH 338 **OR** MATH 370	Stats Applied to Nat Sciences (4, recommended) Mathematical Model Building (4)
MATH 401	Algebra & Prob for the Secondary Teacher (3)
MATH 402	Logic & Geometry for the Secondary Teacher (3)

Teaching Mathematics Elective Courses (6 units)

MATH 407	Abstract Algebra (3)
MATH 414	Topology (3)
MATH 417	Foundations of Geometry (3)
MATH 430	Number Theory (3)
MATH 471	Combinatorics (3)

Teaching Mathematics Elective Courses (9 units)

Any three 400-level MATH classes numbered 406 through 471. EDSC 340 and one of MATH 403A/MATH 403B may be substituted for two of these 400-level MATH courses.

GENERAL EDUCATION REQUIREMENTS

- **Area A Core Competencies** – Complete one course in each subarea for a total of 9 units of lower division.

Subarea	Title
A1	Oral Communications
A2	Written Communication
A3	Critical Thinking (CNSM 101)

- **Area B Scientific and Quantitative Reasoning** – Complete one course in each subarea; the course in B3 must be associated with the course taken to satisfy B1 or B2. Area B courses must include 9 lower division and 3 upper division units (*).

Subarea	Title
B1	Physical Science
B2	Life Science
B3	Laboratory Experience
B4	Mathematics/Quantitative Reasoning
B5(*)	Implications/Explorations in Math and Natural Science

- **Area C Arts and Humanities** – Complete 3 units from C.1; 3 units from C.2; 3 units from C.3; and 3 units from either C.1 or C.2 for a total of 9 lower division and 3 upper division units (*).

Subarea	Title
C1	Introduction to the Arts
C2	Introduction to the Humanities
C3(*)	Explorations in the Arts/Humanities

- **Area D Social Sciences** – Complete 9 lower division and 3 upper div units (*).

Area	Title
D1	Introduction to the Social Sciences
D2	American History, Institutions, and Values
D3(*)	Explorations in the Social Sciences

- **Area E Lifelong Learning and Self Development** – Complete 3 units.

- **Area F Ethnic Studies** – Complete 3 units.

- **Area Z Cultural Diversity**. (3 units). One GE Course in B, C, D, or E must double-count as a Z course.

* **Graduation Requirement – An American Government course is required for students in this catalog year. Please look at your TDA.**