

## **Bachelor of Arts, Mathematics**

### ADMISSION REQUIREMENTS

Complete the Baccalaureate Degree Programs Admission Requirements listed at the beginning of this chapter.

### GRADUATION REQUIREMENTS

Students must complete the following graduation requirements.

#### A. GENERAL UNIVERSITY REQUIREMENTS

Complete the General University Requirements for Baccalaureate degrees listed at the beginning of this chapter.

#### B. GENERAL EDUCATION REQUIREMENTS

Complete the General Education Requirements for Baccalaureate Degrees listed at the beginning of this chapter.

#### C. COLLEGE OF ARTS AND SCIENCES REQUIREMENTS

Complete the College of Arts and Sciences Requirements listed at the beginning of the CAS section.

#### D. MAJOR REQUIREMENTS

Students pursuing a Bachelor of Arts degree in Mathematics may choose from two options:

##### 1. Complete the following core courses (26 Credits)

STAT A307	Probability and Statistics	3
CS A109	Computer Programming (Languages vary)	3
	or	
CS A110	Java Programming	
	or	
CS A111	Visual Basic.Net	
	or	
CS A201	Programming Concepts I	
Math A200	Calculus I	4
Math A201	Calculus II	4
Math A202	Calculus III	4
Math A215	Introduction to Mathematical Proofs	2
Math A303	Introduction to Modern Algebra	3
Math A314	Linear Algebra	3

##### 2. Complete one of the following options:

##### **Traditional Option (21 Credits)**

Math A302	Ordinary Differential Equations	3
Math A321	Analysis of Several Variables	3
Math A324	Advanced Calculus	3
Math A410	Introduction to Complex Analysis	3
	or	
Math A422	Partial Differential Equations	3

- A. Complete 3 additional courses from the following list: STAT A308, STAT A402, STAT A403, STAT A404, STAT A405, STAT A407, STAT A408, Math A305, Math A306, Math A310, Math A371, Math A407, Math A408, Math A410, Math A420, Math A422.

- B. All mathematics majors must take a standardized test of knowledge of mathematics approved by the mathematics faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.
- C. A total of 120 credits are required for the degree, of which 42 credits must be upper division.

**Secondary Teaching Preparation Option (15 Credits)**

The Secondary Teaching Preparation Option is intended for students interested in pursuing Secondary Teacher Certification to teach mathematics at the Middle School and High School level. To obtain Secondary Teacher Certification, an approved Teacher Preparation Program must be successfully completed through the College of Education. Students choosing the Secondary Teacher Preparation Option should obtain advising from an academic advisor in the College of Education no later than the beginning of the Junior year.

Math A305	Introduction to Geometries	3
Math A306	Discrete Methods	3
Math A420	History of Mathematics	3

- A. Complete 2 additional courses from the following list: STAT A308, STAT A402, STAT A403, STAT A404, STAT A405, STAT A407, STAT A408, Math A302, Math A310, Math A321, Math A324, Math A371, Math A407, Math A408, Math A410, Math A422.
- B. All mathematics majors must take a standardized test of knowledge of mathematics approved by the mathematics faculty for the purpose of evaluating program effectiveness. There is no minimum score required for graduation. This test will normally be taken during the senior year.
- C. A total of 120 credits is required for the degree, of which 42 credits must be upper division.