

**Fulbright College Eight Semester Degree Completion Program
Bachelor of Science in Mathematics (Statistics - Option 3) 2008**

Fall Semester 1	Hours	Spring Semester 1	Hours
ENGL 1013 Composition I	3	ENGL 1023 Composition II	3
† MATH 2554 Calculus I	4	† MATH 2564 Calculus II	4
Science from Sequence 1	4	† MATH 2103 Discrete Mathematics	3
Core from groups a, b, c or e (if needed)	3	Core from groups a, b, c or e (if needed)	3
		CSCE 2003 / 2001L Programming Foundations I	4
Total Hours	14	Total Hours	17
Fall Semester 2	Hours	Spring Semester 2	Hours
† MATH 2574 Calculus III	4	†† MATH 3404 Differential Equations	4
†† MATH 3083 Linear Algebra	3	†† STAT 3013 Probability and Statistics	3
Core from groups a, b, c or e (if needed)	3	Core from group f or Core from groups a, b, c or e (if needed)	3
STAT 4003 / 4001L Statistical Methods / Lab	4	Core from groups a, b, c or e (if needed)	3
General Elective	1-3	Science from Sequence 1	4
Total Hours	15-17	Total Hours	17
Fall Semester 3	Hours	Spring Semester 3	Hours
Science from Sequence 2	4	†† MATH 3353 Numerical Methods	3
†† MATH 4513 Advanced Calculus I	3	Science from Sequence 2	4
†† STAT 4033 Nonparametric Stat Methods	3	†† MATH 3113 Introduction to Abstract Algebra I	3
Core from group f or Core from groups a, b, c or e (if needed)	3	Core from groups a, b, c or e (if needed)	3
†† MATH 3083 Linear Algebra or General Elective	3	General Elective	3
Total Hours	16	Total Hours	16
Fall Semester 4	Hours	Spring Semester 4	Hours
†† STAT 4043 Sampling Techniques	3	†† MATH 4932 Math Major Seminar	2
†† Science 3 (Advanced Course in Sequence 1 or 2 above)	4	General Elective	3
Core from groups a, b, c or e (if needed) or Elective	3	Core from groups a, b, c or e (if needed)	3
General Elective	3	Core from groups a, b, c or e (if needed)	3
†† MATH 400(1) Senior Writing Project	1	General Elective (as needed to meet 124 hour requirement)	1-4
Total Hours	14	Total Hours	12-15

Major Requirements for a Bachelor of Science Degree in Mathematics:

❖ Science Requirements:

1. Select two of the following sequences:

A. BIOL 1543/1541L Principles of Biology **AND** one of the following:

BIOL 2533/2531L Cell Biology (*BIOL 1543/1541L, Pre or Co-req: CHEM 1123/1121L or CHEM 1223/1221L*)

BIOL 1613/1611L Plant Biology (*BIOL 1543/1541L*)

BIOL 1603/1601L Principles of Zoology (*BIOL 1543/1541L*)

BIOL 2013/2011L General Microbiology (*BIOL 1543/1541L & 2 semesters of general chemistry*)

B. CSCE 2013/2011L Programming Foundations II and lab (*CSCE 2003*) **AND**

CSCE 3143 Data Structures (*MATH 2103 and CSCE 2013*)

C. CHEM 1103/1101L University Chemistry (*MATH 1203*) **AND** CHEM 1123/1121L University Chemistry II (*MATH 1203, CHEM 1103*)

D. GEOL 1113/1111L General Geology **AND** GEOL 1133/1131L Environmental Geology (*GEOL 1113*)

E. PHYS 2054/2050L University Physics I (*Pre or Co-req: MATH 2554*) **AND**

PHYS 2074/2070L University Physics II (*PHYS 2054, Pre or Co-req: MATH 2564*)

2. Select one advanced course from one of the chosen sequences above. Course must be approved by the department.

OPTION 3: For students seeking to emphasize statistics or who wish to pursue graduate studies in statistics

1. MATH 3353 Numerical Methods (*MATH 2574 and knowledge in high-level computer language*)

2. STAT 3013 Introduction to Probability and Statistics (*MATH 2564*)

3. STAT 4003/4001L Statistical Methods (*MATH 2554*)

4. *STAT 4033 Nonparametric Statistical Methods (*MATH 1203 and Jr. standing*)

5. *STAT 4043 Sampling Techniques (*STAT 4003*)

Strongly recommended electives in this program are *STAT 5103 Theory of Statistics (MATH 2574)* and *STAT 5113 Statistical Inference (STAT 5103)*

† Meets 40-hour advanced credit hour requirement. See 3 on Graduation Requirements Checklist or Catalog of Studies.

‡ Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 40-hour rule. See 2b on Graduation Requirements Checklist or see the Catalog of Studies.

Additional Fulbright College BS Core Requirement Areas *(Pre-requisite requirements in italics)*

Core Area	Hours	Courses
a. US History/American National Government and Western Civilization	9	<p>U.S. History/American National Government- 3 hours from: HIST 2003 History of the American People to 1877 or HIST 2013 History of the American People from 1877 or PLSC 2003 American National Government</p> <p>Western Civilization – 6 hours from: HIST 1003 Western Civilization I and HIST 1013 Western Civilization II OR HIST 1113 World Civilizations I and HIST 1123 World Civilizations II</p>
b. Foreign Language	Up to 9 hours (depending on placement)	<p>Completion through the Intermediate I (2003) level in a single language (Includes course numbers 1003*, 1013, 2003) *1003 is non-degree credit unless student completed two years in a single foreign language in high school and takes 1003 in a different language. Students under this plan must begin with a degree-credit course in foreign language.</p>
c. Fine Arts/ World Literature/Philosophy	9 hours total selected from at least 2 different areas	<p>Fine Arts: ARCH 1003 Architecture Lecture or LARC 1003 Landscape Architecture ARHS 1003 Art History or ARTS 1003 Art Studio COMM 1003 Film Lecture DANC 1003 Movement and Dance DRAM 1003 Theater Lecture HUMN 1003 Introduction to the Arts and Aesthetics MLIT 1003 Music Lecture</p> <p>World Literature: WLIT 1113 World Literature I WLIT 1123 World Literature II (<i>WLIT 1113</i>) OR a) a foreign language literature course b) any other WLIT course</p> <p>Philosophy: PHIL 2003 Introduction to Philosophy PHIL 2103 Introduction to Ethics PHIL 2203 Introduction to Logic</p>
d. Natural Sciences	Determined by the department of the major	
e. Social Sciences	3	<p>ANTH 1023 Introduction to Cultural Anthropology ECON 2013 Principles of Macroeconomics (<i>MATH 1203</i>) or ECON 2143 Basic Economics GEOG 2003 World Regional Geography PSYC 2003 General Psychology SOCI 2013 General Sociology</p>
f. Advanced Composition	3 hours - Exemption may be granted by either: a) grades of "A" or "B" in ENGL 1013 and "A" in ENGL 1023 taken at UA or b) passing the Advanced Composition Exam*	<p>ENGL 2003 Advanced Composition or ENGL 2013 Essay Writing *(Students must satisfy the ENGL 1013 and 1023 requirement and complete 30 credit hours before taking the Advanced Composition Exam. The exam must be taken before the student has completed 96 credit hours. Students who do not pass the Advanced Composition Exam must take ENGL 2003.)</p>