UNIVERSITY REQUIREMENTS

UNIVERSITY CORE REQUIREMENTS

- UNIV 1001: University Perspectives: Destination Graduation (must be completed during freshman year)

ENGLISH (2 courses - 6 hrs)
- ENG 1013 Composition I
- ENG 1023 Composition II

U.S. HISTORY (1 course - 3 hrs)
- HIST 1023 History of the American People to 1877

HUMANITIES (1 course - 3 hrs)
- World language at Intermediate I (2003) level
  - MATH 1033 Quantitative Reasoning, or any higher level math course, including STAT 2303.

FINE ARTS (1 course - 3 hrs)
- ART 1003 Film Lecture

SOCIAL SCIENCES (3 courses from at least 2 fields - 9 hrs)
- HUMAN 1124 Honors Eq. of Cultures, 500-1600
- HUMAN 2024 Honors 20th Century Global Culture
- HUMAN 2034 Intro to Ethnic Studies
- HUMAN 2044 Honors Logic

MATHEMATICS (1 course - 3-4 hrs)
- MATH 1024 College Algebra
- MATH 1124 Quantitative Reasoning, or any higher level math course, including STAT 2303.

NATURAL SCIENCES (2 courses - 8 hrs)
- ANTH 1023 Intro to Biological Anthropology
- ASTR 2003/2001L Survey of the Universe
- BIOL 1543/1541L Principles of Biology
- BIOL 2003/2001L Principles of Zoology
- BIOL 2013/2011L Plant Biology
- BIOL 2023/2021L Animal Physiology
- BIOL 2033/2031L Animal Anatomy

OPTION 1: APPLIED (6 courses - 18-19 hrs)
- MATH 4033 Introduction to Probability and Statistics
- STAT 5043 Linear Statistical Methods
- STAT 5053 Nonparametric Statistical Methods

OPTION 2: PURE (6 courses - 18 hrs)
- MATH 4033 Introduction to Probability and Statistics
- STAT 5043 Linear Statistical Methods
- STAT 5053 Nonparametric Statistical Methods

OPTION 3: STATISTICS (6 courses - 19 hrs)
- MATH 4033 Introduction to Probability and Statistics
- STAT 5043 Linear Statistical Methods
- STAT 5053 Nonparametric Statistical Methods

Students must complete one option from the following three below (Applied, Pure, or Statistics).

Students who transfer into the University must complete the Core course requirements.

For students admitted Fall 2013 - Summer 2014

Students must earn at least 40 degree credit hours in courses numbered 3000 or higher. Included in these 40 hours can be courses numbered 2000 or higher if each course has a specific course designation as a prerequisite. These courses may be taken from other colleges or universities. Students who transfer into the University must complete the Core course requirements.

DEPARTMENT OF MATHEMATICS

COMPUTER PROGRAMMING (1 course - 4 hrs)
- CSCE 2004 Programming Foundations I

MAJOR REQUIREMENTS

MATHEMATICS CORE (8 courses - 24 hrs)
- MATH 2074 Calculus III
- MATH 2084 Differential Equations and Laplace Transform
- MATH 2701 Survey of Higher Math
- MATH 2803 Intro to Mathematical Proof
- MATH 3093 Abstract Linear Algebra
- MATH 3113 Intro to Abstract Algebra I
- MATH 4513 Advanced Calculus I
- MATH 4933 Mathematics Major Seminar

The Fulbright College writing requirement for non-honors students is typically completed in MATH 4933.

ADDITIONAL REQUIREMENTS (choose one below)
- Completion of an additional major or minor other than Mathematics or Statistics
- Completion of the College Honors core

**Students must complete one option from the following three below (Applied, Pure, or Statistics).**

**OPTION 1: APPLIED (6 courses - 18-19 hrs)**
- STAT 3013 Intro to Probability and Statistics
- STAT 5033 Intro to Probability Theory
- MATH 3423 Advanced Applied Mathematics
- CSCE 3313 Algorithms
- MATH 4353 Numerical Linear Algebra
- MATH 4363 Numerical Analysis

**OPTION 2: PURE (6 courses - 18 hrs)**
- MATH 4443 Complex Variable for Application
- MATH 4523 Advanced Calculus II
- STAT 4003/4001L Statistical Methods
- STAT 4033 Nonparametric Statistical Methods

**OPTION 3: STATISTICS (6 courses - 19 hrs)**
- MATH 4353 Numerical Linear Algebra
- STAT 3013 Intro to Probability and Statistics
- STAT 5033 Intro to Probability Theory
- MATH 3423 Advanced Applied Mathematics
- CSCE 3313 Algorithms
- MATH 4353 Numerical Linear Algebra

**MATH or STAT electives numbered 3000 or higher (6 hrs - 2 courses):**
- STAT 5033 Intro to Probability Theory
- MATH 5033 Intro to Probability Theory

**Strongly recommended electives in this option are STAT 5033 Intro to Probability Theory and STAT 5113 Statistical Inference.**

**Minimum degree credit hours required to graduate = 120 (University Core + Major + General Electives)**