

J. William Fulbright College of Arts and Sciences
UNIVERSITY CORE REQUIREMENTS
 MINIMUM CREDIT HOURS REQUIRED TO GRADUATE = 120
 CORE + MAJOR + GENERAL ELECTIVES

Fulbright College Advising Center | CHPN 322 | (479)575-3307 | fulbrightadvising.uark.edu | fcacfy@uark.edu

MATHEMATICS (1 course – 3-4 hours)

- MATH 1203 College Algebra
- MATH 1313 Quantitative Reasoning
- Any higher level Math course (including STAT 2303)

NATURAL SCIENCES (2 courses w/matching labs – 8 hours)

- ANTH 1013/1011L Intro to Biological Anthropology
- ASTR 2003/2001L Survey of the Universe
- BIOL 1524 Biological Principles
- BIOL 1543/1541L Principles of Biology
- BIOL 1584 Biology for Majors
- BIOL 1603/1601L Principles of Zoology
- BIOL 1613/1611L Plant Biology
- BIOL 2213/2211L Human Physiology
- BIOL 2443/2441L Human Anatomy
- CHEM 1053/1051L Chemistry in the Modern World
- CHEM 1073/1071L Fundamentals of Chemistry
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- CHEM 1203/1201L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II
- ENSC/BIOL 1003/1001L Environmental Science
- ENTO 1023/1021L Insects, Science, & Society
- GEOS 1113/1111L General Geology
- GEOS 1133/1131L Earth Science
- PHYS 1023/1021L Physics & Human Affairs
- PHYS 1034 Physics for Elementary Ed Majors
- PHYS 1044 Physics for Architects I
- PHYS 1054 Physics for Architects II
- PHYS 2013/2011L College Physics I
- PHYS 2033/2031L College Physics II
- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

FINE ARTS (1 course – 3 hours)

- ARCH 1003 Architecture Lecture
- ARHS 1003 Art Lecture
- COMM 1003 Film Lecture
- DANC 1003 Movement and Dance
- ENGL 2023 Creative Writing I
- HUMN 2114H* Honors Birth of Modern Culture 1600-1900
- LARC 1003 The American Landscape
- MLIT 1003 Experiencing Music
- MLIT 1013 Music and Society
- MLIT 1333 Popular Music
- THTR 1003 Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

SOCIAL SCIENCES (3 courses from at least 2 fields – 9 hours)

- AGECE 1103 Principles of Agriculture Microeconomics
- AGECE 2103 Principles of Agriculture Macroeconomics
- ANTH 1023 Intro to Cultural Anthropology
- COMM 1023 Communication in a Diverse World
- ECON 2013 Principles of Macroeconomics
- ECON 2023 Principles of Microeconomics
- ECON 2143 Basic Economics: Theory and Practice
- GEOS 1123 Human Geography
- GEOS 2003 World Regional Geography
- HDFS 1403 Life Span Development
- HDFS 2413 Family Relations
- HDFS 2603 Rural Families & Communities
- HIST 1113 Institutions and Ideas of World Civilizations I
- HIST 1123 Institutions and Ideas of World Civilizations II
- HIST 2003 History of the American People to 1877
- HIST 2013 History of the American People 1877 to Present
- HUMN 1114H* Honors Roots of Culture to 500 C.E.
- HUMN 2114H* Honors Birth of Modern Culture, 1600-1900
- PLSC 2003 American National Government
- PLSC 2013 Intro to Comparative Politics
- PLSC 2203 State and Local Government
- PSYC 2003 General Psychology
- RESM 2853 Leisure and Society
- SOCI 2013 General Sociology
- SOCI 2033 Social Problems

 UNIV 1001 University Perspectives

(Or equivalent course from another University of Arkansas college)

ENGLISH COMPOSITION (2 courses – 6 hours)

- ENGL 1013 Composition I
- ENGL 1023/1033 Composition II/Technical Composition II

U.S. HISTORY & GOVERNMENT (1 course – 3 hours)

- HIST 2003 History of the American People to 1877
 - HIST 2013 History of the American People 1877 to Present
 - PLSC 2003 American National Government
- Note: U.S. History & Government courses cannot be used more than once within the University Core.*

HUMANITIES (1 course – 3 hours)

- AAST 2023 The African American Experience
- ARCH 1013 Diversity and Design
- CLST 1003 Intro to Classical Studies: Greece
- CLST 1013 Intro to Classical Studies: Rome
- COMM 1233 Media, Community, and Citizenship
- ENGL 1213 Intro to Literature
- GNST 2003 Intro to Gender Studies
- HUMN 1124H* Honors Eq. of Cultures, 500-1600
- HUMN 2124H* Honors 20th Century Global Culture
- MRST 2013 Intro to Medieval & Renaissance Studies
- MUSY 2003 Music in World Cultures
- PHIL 2003 Intro to Philosophy
- PHIL 2103 Intro to Ethics
- PHIL 2203 Logic
- PHIL 3103 Ethics and the Professions
- WLIT 1113 World Literature I
- WLIT 1123 World Literature II
- World Language at the Intermediate I (2003) level

* Honors students only.

Please visit catalog.uark.edu for an extensive list of graduation and prerequisite requirements.



Catalog year: 2019

Fulbright College Advising Center
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J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE IN MATHEMATICS

MINIMUM DEGREE CREDIT HOURS REQUIRED TO GRADUATE = 120 (CORE + MAJOR + GENERAL ELECTIVES)

Department of Mathematics
301 SCEN
479-575-3351
math.uark.edu

NATURAL SCIENCES (2 courses – 8 hours)

Choose from one of the following natural science sequences:

- BIOL 1543/1541L Principles of Biology
- Chose one additional BIOL course:
 - BIOL 1603/1601L Principles of Zoology
 - BIOL 1613/1611L Plant Biology
 - BIOL 2103/2011L General Microbiology
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- GEOS 1113/1111L General Geology
- GEOS 1133/1131L Earth Science
- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

MATHEMATICS CORE (8 courses – 24 hours)

- MATH 2574 Calculus III
- MATH 2584 Elementary Differential Equations
- MATH 2803 Transition to Advance Math
- MATH 3093 Abstract Linear Algebra
- MATH 3113 Intro to Abstract Algebra
- MATH 4513 Advanced Calculus I
- MATH 4933 Mathematics Major Seminar

Note: It is recommended that MATH 2803 be taken as early as possible in the program.

Note: A 2.00 cumulative GPA on all work completed in the Department of Mathematical Sciences is required for graduation with a B.A. or B.S. degree.

COMPUTER PROGRAMMING (1 course – 4 hours)

- CSCE 2004 Programming Foundations I

ADDITIONAL REQUIREMENTS (choose one below)

- Completion of eight hours numbered 3000+ not in MATH/STAT with department approval.
- Completion of UA Teach curriculum.
- Completion of College Honors core.

MATHEMATICS WRITING REQUIREMENT

- Satisfied by a senior writing project under the direction of a faculty member (typically in MATH 4933) or by completing an honors thesis.

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

OPTION 1: APPLIED (6 courses – 18-19 hours)

- STAT 3013 Intro to Probability and Statistics
- or
- STAT 5103 Intro to Probability Theory
- MATH 4423 Intro to Partial Differential Equations
- MATH 4353 Numerical Linear Algebra
- MATH 4363 Numerical Analysis

Two additional MATH or STAT electives numbered 3000 or higher. (Students may also take CSCE 4133)

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OPTION 2: PURE (6 courses – 18 hours)

- MATH 4113 Intro to Abstract Algebra II
- or
- MATH 4523 Advanced Calculus II
- MATH 4443 Complex Variables

MATH or STAT electives numbered 3000 or higher. (Students may also take CSCE 4133 Algorithms)

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OPTION 3: STATISTICS (6 courses – 19 hours)

- MATH 4353 Numerical Linear Algebra
- STAT 3013 Intro to Probability & Statistics
- or
- STAT 5103 Intro to Probability Theory
- STAT 4003/4001L Statistical Methods
- STAT 4033 Nonparametric Statistical Methods

MATH or STAT electives numbered 3000 or higher. (Students may also take CSCE 4133 Algorithms.)

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Note: STAT 5103 Intro to Probability Theory and STAT 5113 Statistical Inference are strongly recommended.