

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

**\*\* Note:** Some courses may appear as options in multiple areas of the University Core. You can only count each course 1 time in the University Core and will need unique courses in each of the content areas below.

Fulbright College Advising Center | CHPN 322 | (479)575-3307 | fulbrightadvising.uark.edu | [fcacf@uark.edu](mailto:fcacf@uark.edu)

**MATHEMATICS (1 course – 3-4 hours)**

- MATH 1203 College Algebra
- MATH 1313 Quantitative Reasoning
- MATH 1514 Calculus with Algebra & Trigonometry I
- Any higher-level Math course (including STAT 2303)

**Note:** Based on placement scores. Please see [mathplacement.uark.edu](http://mathplacement.uark.edu) for placement score and exam information.

**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 Physical 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
- EDST 2003 Introduction to Educational Studies
- 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 \*\*
- HIST 2093 Animals in World History
- HUMN 1114H\* Honors Roots of Culture to 500 C.E.
- HUMN 2114H\* Honors Birth of Modern Culture, 1600-1900
- INST 2013 Introduction to International and Global Studies
- INST/PLSC 2813 Intro. to Int'l Relations & Global Studies
- 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 Composition II or ENGL 1033 Technical Comp 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 \*\*

**HUMANITIES (1 course – 3 hours)**

- AAST 2023 The African American Experience
- ANTH 1033 Introduction to Archaeology
- 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
- DANCE 1003 Movement and Dance \*
- ENGL 1213 Intro to Literature
- GNST 2003 Intro to Gender Studies
- 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 1124H\* Honors Eq. of Cultures, 500-1600
- HUMN 2213 Introduction to World Religions
- LALS 2013 Latin American Studies
- 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 2303 Human Nature and the Meaning of Life
- PHIL 3103 Ethics and the Professions
- THTR 1003 Theatre Appreciation\*\*
- THTR 1013 Musical Theatre Appreciation\*\*
- 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](http://catalog.uark.edu) for an extensive list of graduation and prerequisite requirements.



Catalog year: 2020

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CHPN 322  
479.575.3307  
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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](http://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 2013/2011L General Microbiology
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- GEOS 1113/1111L Physical 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 Fulbright Four Year Honors Core for a Bachelor of Science.

**MATHEMATICS WRITING REQUIREMENT**

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

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

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

A program for the student who wishes to prepare for either applied work in mathematics or graduate work in some field other than mathematics or statistics.

- 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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**CONCENTRATION 2: PURE (6 courses – 18 hours)**

A program for the student who is seeking a broad background in mathematics or wishes to study mathematics at the graduate level.

- 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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**CONCENTRATION 3: STATISTICS (7 courses – 19 hours)**

A program for the student who wishes to emphasize statistics or who intends to study statistics at the graduate level.

- STAT 3013 Intro to Probability & Statistics
- OR
- STAT 5103 Intro to Probability Theory
- STAT 3003 Statistical Methods
- STAT 3001L Statistical Methods Lab or STAT 4101L Intro to R
- STAT 3113 Introduction to Mathematical Statistics
- STAT 4033 Nonparametric Statistical Methods

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

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**Degree Breakdown:**

University Core + Major Requirements + General Electives = **120** total hours

**University Core: (Typically 35 hours)** These options are listed on the first page of this work sheet

**Major Requirements: (Up to 47 hours)** These are the courses specifically required by the department to complete a degree and are listed above.

**General Electives: (Varies by major)** These courses make up the difference to reach 120 total hours beyond University Core and Major Requirements. These courses must be 1000 level or higher (in some cases, 3000 level or higher), courses not already required, and courses you do not have previous credit for. These courses are great to use for other majors and minors.

**Fulbright Writing Requirement:** Each Fulbright graduate must complete a writing requirement to graduate. Each academic department may meet this requirement in a different way, so make sure you work with your advisor for specifics.

**Online courses:** Students in on-campus degree programs are allowed to take online sections reserved for on-campus students. However, only 35% of a student's courses taken at the University of Arkansas may be online. See catalog for official policy.

**GPA:** Every student must have at least a 2.00 **cumulative** grade point average to be eligible to graduate from the University of Arkansas.

**24, 30, and 40 Hour Rules:**

*Also known as residency requirements, these hours can come from major/minors. Courses can count for each rule met.*

**24 Hour Rule:**

Students must complete at least 24 hours of 3000+ level classes in the Fulbright College.

**30 Hour Rule:**

Students must complete at least 30 hours of 3000+ level classes at the University of Arkansas.

**40 Hour Rule:**

Students must complete at least 40 hours of 3000+ level classes in total, including transfer courses. Courses that are 2000 level and have a pre-requisite may also count for this rule.