### Fulbright College Honors Program

**College Scholars Core Requirements for a Bachelor of Science**

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

### Option 1

#### Natural Sciences & Mathematics
- **20 hours minimum, including at least one MATH course**
  - Honors hours must come from at least two groups
  - Minimum honors hours: 16

  **Physics & Astronomy**
  - PHYS 2054 or 2054H University Physics I
  - PHYS 2074 or 2074H University Physics II

  **Biology & Anthropology**
  - ANTH 1013/1011L or 1013H/1011M Biol. Anthropology
  - BIOL 1003/1001L Environmental Science
  - BIOL 1543/1541L or 1543/1541M Principles of Biology
  - BIOL 1584 Biology for Majors
  - BIOL 1603/1601L or 1603/1601M Principles of Zoology
  - BIOL 1613/1611L or 1613/1611M Plant Biology
  - BIOL 2013/2011L or 2013/2011M General Microbiology

  **Chemistry**
  - CHEM 1103/1101L University Chemistry I*
  - CHEM 1123/1121L or 1123H/1121M University Chemistry II
  - CHEM 1203/1201L Chemistry for Majors I*
  - CHEM 1223/1221L Chemistry for Majors II*
  - CHEM 3603/3601L or CHEM 3603H/3602M Organic Chemistry I
  - CHEM 3613/3611L or CHEM 3613H/3612M Organic Chemistry II
  - CHEM 3703/3702L Organic Chemistry for Majors I*
  - CHEM 3713/3712L Organic Chemistry for Majors II*
  - PHYS 1023/1021L or 1023H/1021M Physics & Human Affairs

  **Geology**
  - GEOS 1113/1111L or 1113H/1111M General Geology
  - GEOS 1133/1131L Environmental Geology

  **Mathematics**
  - MATH 2554C or 2554H Calculus I
  - MATH 2564C or 2564H Calculus II
  - MATH 2574C or 2574H Calculus III

#### Humanities & Social Sciences
- **6 courses • 18 hours**
  - Minimum honors hours: 9

  **Social Sciences (1 courses • 3 hours)**
  - ANTH 1023 or 1023H Intro to Cultural Anthropology
  - COMM 1023 or 1023H Communication in a Diverse World
  - ECON 2013 or 2013H Principles of Macroeconomics
  - ECON 2023 or 2023H Principles of Microeconomics
  - ECON 2143 or 2143H Basic Economics
  - GEOS 2003 or 2003H World Regional Geography
  - PSYC 2003 or 2003H General Psychology
  - SOCI 2013 or 2013H General Sociology

  **World Civilization (2 courses • 6 hours)**
  - HIST 1113 or 1113H Inst. and Ideas of World Civ. I
  - HIST 1123 or 1123H Inst. and Ideas of World Civ. II

  **Fine Arts & Humanities (3 courses – 9 hours)**
  - Select one course from Fine Arts & Humanities sections, then select a third course from either section.

  **Fine Arts (select one)**
  - ARCH 1003 or 1003H Architecture Lecture
  - ARHS 1003 or 1003H Art Lecture
  - COMM 1003 or 1003H Film Lecture
  - DANC 1003 or 1003H Movement and Dance
  - ENGL 2023 Creative Writing I
  - MLIT 1003 or 1003H Experiencing Music
  - MLIT 1013 or 1013H Music & Society
  - MLIT 1023 Popular Music
  - THTR 1003 or 1003H Theatre Appreciation
  - THTR 1013 Musical Theatre Appreciation
  - THTR 1223 Introduction to Theatre**

  **Humanities (select one)**
  - AAST 2023 The African American Experience
  - CLST 1003 or 1003H Intro to Classical Studies: Greece
  - CLST 1013 or 1013H Intro to Classical Studies: Rome
  - GNST 2003 or 2003H Intro to Gender Studies
  - COMM 1233 or 1233H Media, Community, & Citizenship
  - MUSY 2003 or 2003H Music in World Cultures
  - WLIT 1123 or 1123H World Literature II
  - Any other 2000+ WLIT or World Language literature course

#### Colloquia & Other Requirements
- **Hours vary based on exemptions & language placement**

  **UNIV 1001H:** University Perspectives (freshmen must complete during first year)

  **English Composition (2 courses • 6 hours)**
  - ENGL 1013 Composition I
  - ENGL 1023 Composition II

  **U.S. History or Government (1 course • 3 hours)**
  - HIST 2003 History of the American People to 1877
  - HIST 2103 History of the American People 1877 to Present
  - PLSC 2003 or 2003H American Nat’I Government

  **World Language through the Intermediate I (2013 level or higher)**

  **Honors Colloquia (3 courses • 9 hours)**
  - One from each approved area. No more than three (3) hours of required colloquia may be earned either abroad or in an intersession.
  - Humanities
  - Social Science
  - Natural Science or Mathematics

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*Students who complete University Chemistry I followed by Honors University Chemistry II will receive eight hours of honors science credit. Chemistry I & II for Majors, Organic Chemistry I & II for Majors, and BIOL 1584 also count as honors science credit.*

**Students who complete THTR 1223, Introduction to Theatre, will receive 3 hours of honors credit.*
### NATURAL SCIENCES & MATHEMATICS

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- **Physics & Astronomy**
  - PHYS 2054 or 2054H University Physics I
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- **Biology & Anthropology**
  - ANTH 1013/1011L or 1013H/1011M Biol. Anthropology
  - BIOL 1003/1001L Environmental Science
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  - CHEM 3703/3702L Organic Chemistry for Majors I*
  - CHEM 3713/3712L Organic Chemistry for Majors II*
  - PHYS 1023/1021L or 1023H/1021M Physics & Human Affairs

- **Geology**
  - GEOS 1113/1111L or 1113H/1111M General Geology
  - GEOS 1133/1131L Environmental Geology

- **Mathematics**
  - MATH 2554C or 2554H Calculus I
  - MATH 2564C or 2564H Calculus II
  - MATH 2574C or 2574H Calculus III

### HUMANITIES & SOCIAL SCIENCES

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<th>5 courses • 18 hours</th>
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- **Social Sciences (1 courses • 3 hours)**
  - ANTH 1023 or 1023H Intro to Cultural Anthropology
  - COMM 1023 or 1023H Communication in a Diverse World
  - ECON 1023 or 1023H Principles of Macroeconomics
  - ECON 2023 or 2023H Principles of Microeconomics
  - ECON 2143 or 2143H Basic Economics
  - GEOS 2003 or 2003H World Regional Geography
  - PSYC 2003 or 2003H General Psychology
  - SOCI 2013 or 2013H General Sociology

- **Humanities (3 courses – 12 hours)**
  - HUMN 1114H Roots of Culture to 500 C.E.
  - HUMN 1124H Equilibrium of Cultures, 500-1600
  - HUMN 2114H Birth of Modern Culture, 1600-1900

- **Fine Arts (1 course – 3 hours)**
  - ARCH 1003 or 1003H Architecture Lecture
  - ARHS 1003 or 1003H Art Lecture
  - COMM 1003 or 1003H Film Lecture
  - DANC 1003 or 1003H Movement and Dance
  - ENGL 2023 Creative Writing I
  - MLIT 1003 or 1003H Experiencing Music
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  - MLIT 1333 Popular Music
  - THTR 1003 or 1003H Theatre Appreciation
  - THTR 1013 Musical Theatre Appreciation
  - THTR 1223 Introduction to Theatre**

### COLLOQUIA & OTHER REQUIREMENTS

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- **UNIV 1001H**: University Perspectives (freshmen must complete during first year)

- **English Composition (2 courses • 6 hours)**
  - ENGL 1013 Composition I
  - ENGL 1023 Composition II

- **U.S. History or Government (1 course • 3 hours)**
  - HIST 2003 History of the American People to 1877
  - HIST 2013 History of the American People 1877 to Pres.
  - PLSC 2003 or 2003H American Nat’l Government

- **World language through the Intermediate I (2003) level or higher (hours vary)**
  - World language through the Intermediate I (2003) level or higher (hours vary)

- **Honors Colloquia (3 courses • 9 hours)**
  - One from each approved area. No more than three (3) hours of required colloquia may be earned either abroad or in an intersession.

  - **Humanities**
  - **Social Science**
  - **Natural Science or Mathematics**

* Students who complete University Chemistry I followed by Honors University Chemistry II will receive eight hours of honors science credit. Chemistry I & II for Majors, Organic Chemistry I & II for Majors, and BIOL 1584 also count as honors science credit.

** Students who complete THTR 1223, Introduction to Theatre, will receive three hours of honors credit.
**MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE IN MATHEMATICS**

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

### NATURAL SCIENCES (2 courses – 8 hours)

- Choose from one of the following natural science sequences:
  - **BIOL 1543/1541L Principles of Biology**
  - **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 1123/1121L 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 Advanced 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.*

### 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.

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

- **STAT 3013 Intro to Probability and Statistics**
- **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 Algorithms)

- ____________________________
- ____________________________
- ____________________________

**OPTION 2: PURE (6 courses – 18 hours)**

- **MATH 4113 Intro to Abstract Algebra II**
- **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**
- **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.)

- ____________________________
- ____________________________

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