# 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 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 203/201L or 203/2011M 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 Earth Science

#### 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 course • 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
- GEOG 2003 or 2003H World Regional Geography
- PSYC 2003 or 2003H General Psychology
- SOCI 1013 or 1013H 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 1333 Popular Music
- THTR 1003 or 1003H Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

#### 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
- PHIL 2003 or 2003H Intro to Philosophy
- WLIT 1113 or 1113H World Literature I
- 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
  (Or equivalent course from another University of Arkansas College)

- **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 Present
  - PLSC 2003 or 2003H American Nat’l Government

#### World Language through the Intermediate I (2013 level or higher (hours vary))

- ___________ (2013)

#### 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. An approved list of Honors Colloquia can be found on the Fulbright Honors website.

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

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

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<th>Option 2</th>
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### 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 or 1013H/1011M Biology
  - BIOL 1543 or 1543H/1541M Principles of Biology
  - BIOL 1584H Biology for Majors
  - BIOL 1603/1601L or 1603H/1601M Principles of Zoology
  - BIOL 1613/1611L or 1613H/1611M Plant Biology
  - BIOL 203/203L or 203/203M 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 Earth Science

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

### Humanities & Social Sciences

(5 courses • 18 hours)
- Minimum honors hours: 9

- **Social Sciences (1 course • 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 Microeconomics
  - ECON 2023 or 2023H Principles of Macroeconomics
  - 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 1144H 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 2023H Creative Writing I
  - MLIT 1003 or 1003H Experiencing Music
  - MLIT 1013 or 1013H Music & Society (Music Majors Only)
  - MLIT 1233 Popular Music
  - THTR 1003 or 1003H Theatre Appreciation
  - THTR 1013H Musical Theatre Appreciation

### Colloquia & Other Requirements

(hours vary based on exemptions & language placement)

- **UNIV 1001H:** University Perspectives
  (Or equivalent course from another University of Arkansas college)

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

- **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.

- **Honors Program**
  - 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.
MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in CHEMISTRY

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Catalog year: 2019

J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

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

Fulbright College Advising Center
CHPN 322
479.575.3307
fulbrightadvising.uark.edu

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

Department of Chemistry and Biochemistry
101 CHEM
479.575.4601
chemistry.uark.edu

Chemistry and Biochemistry
101 CHEM
479.575.4601
chemistry.uark.edu

CHEMISTRY (11 courses • 45 hours)

- CHEM 1203/1201L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II
  or
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- CHEM 2263/2261L Analytical Chemistry
  (pre-requisite: CHEM 1123/1121L)
- CHEM 3703/3702L Organic Chemistry for Majors I
- CHEM 3713/3712L Organic Chemistry for Majors II
- CHEM 3504 Physical Chemistry I (fall only)
  (pre-requisite: CHEM 2263 & PHYS 2074; pre or co-requisite: MATH 2564)
- CHEM 3514/3512L Physical Chemistry II (spring only)
  (pre-requisite: CHEM 3504)
- CHEM 4123 Advanced Inorganic Chemistry I (fall only)
  (pre-requisite: CHEM 3453)
- CHEM 4213/4211L Instrumental Analysis (spring only)
  (pre-requisite: CHEM 2263/2261L & CHEM 3613/3611L)
- CHEM 4723 Experimental Methods in Organic Chemistry (fall only)
  (pre-requisite: CHEM 3613/3611L)

Select any CHEM lecture course numbered 3000 or higher:

- CHEM ____________

Note: This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 Intro to Biochemistry or CHEM 4813H/CHEM4843H Honors Biochemistry I/II is included.

CHEMISTRY WRITING REQUIREMENT

- Satisfied by the formal research/analytical reports required in Physical Chemistry Laboratory—CHEM 3451L or CHEM 3512L—or by completing an honors thesis.

Note: Anytime a "for majors" course option is completed, it will suffice to complete the "not for majors" pre-requisite listed above.

MATHEMATICS (3 courses • 12 hours)

- MATH 2554 Calculus I
- MATH 2564 Calculus II
- MATH 2574 Calculus III

PHYSICS (2 courses • 8 hours)

- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

Note: These mathematics and physics prerequisite requirements are substantial, and these courses and their prerequisites should be scheduled early in the student’s program.