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

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

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

Geology
- GEOS 1113/1111L or GEOS 1113H/1111M General Geology

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

Humanities & Social Sciences
(6 courses • 18 hours)
- Minimum honors: 9

Social Sciences (1 course • 3 hours)
- ANTH 1023 or ANTH 1023H Intro to Cultural Anthropology
- COMM 1023 or COMM 1023H Communication in a Diverse World
- ECON 1023 or ECON 1023H Principles of Macroeconomics
- ECON 2023 or ECON 2023H Principles of Microeconomics
- ECON 2143 or ECON 2143H Basic Economics
- GEOG 2033 or GEOG 2033H World Regional Geography
- PSYC 1023 or PSYC 1023H General Psychology
- SOCI 1023 or SOCI 1023H General Sociology

World Civilization (2 courses • 6 hours)
- HIST 1113 or HIST 1113H Inst. and Ideas of World Civ. I
- HIST 1123 or HIST 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 ARCH 1003H Architecture Lecture
- ARHS 1003 or ARHS 1003H Art Lecture
- COMM 1003 or COMM 1003H Film Lecture
- DANC 1003 or DANC 1003H Movement and Dance
- ENGL 2023 Creative Writing I
- MLIT 1003 or MLIT 1003H Experiencing Music
- MLIT 1013 or MLIT 1013H Music & Society (Music Majors Only)
- MLIT 1333 Popular Music
- THTR 1003 or THTR 1003H Theatre Appreciation
- THTR 1013Musical Theatre Appreciation

Humanities (select one)
- AAST 2023 The African American Experience
- CLST 1003 or CLST 1003H Intro to Classical Studies: Greece
- CLST 1013 or CLST 1013H Intro to Classical Studies: Rome
- GNST 2003 or GNST 2003H Intro to Gender Studies
- COMM 1233 or COMM 1233H Media, Community, & Citizenship
- MUSY 2003 or MUSY 2003H Music in World Cultures
- PHIL 2003 or PHIL 2003H Intro to Philosophy
- WLIT 1113 or WLIT 1113H World Literature I
- WLIT 1123 or WLIT 1123H World Literature II
- Any other 2000+ WLIT 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 1003 The History of the American People to 1877
  - HIST 2003 History of the American People 1877 to Pres.
  - PLSC 2003 or PLSC 2003H American Nat’l Government

World language through the Intermediate I (2004) level or higher (hours vary)
- ____________________________ (2004)

- 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 I 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.
### 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

<table>
<thead>
<tr>
<th>Field</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physics &amp; Astronomy</td>
<td>ASTR 2003/2001L or 2003H/2001M Survey of the Universe, PHYS 2054 or 2054H University Physics I, PHYS 2074 or 2074H University Physics II</td>
</tr>
<tr>
<td>Biology &amp; Anthropology</td>
<td>ANTH 1013/1011L or 1013H/1011M Biology, Anthropology, BIOL 1543/1541L or 1543/1541M Principles of Biology, BIOL 1584 Biology for Majors I*, 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</td>
</tr>
<tr>
<td>Geology</td>
<td>GEOS 1113/1111L or 1113H/1111M General Geology, GEOS 1133/1131L Earth Science</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MATH 2554C or 2554H Calculus I, MATH 2564C or 2564H Calculus II, MATH 2574C or 2574H Calculus III</td>
</tr>
</tbody>
</table>

### HUMANITIES & SOCIAL SCIENCES
(5 courses • 18 hours)
- Minimum honors hours: 9

<table>
<thead>
<tr>
<th>Field</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Social Sciences (1 course • 3 hours)</td>
<td>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</td>
</tr>
<tr>
<td>Humanities (3 courses – 12 hours)</td>
<td>HUMN 1114H Roots of Culture to 500 C.E., HUMN 1124H Equilibrium of Cultures, 500-1600, HUMN 2114H Birth of Modern Culture, 1600 - 1900</td>
</tr>
<tr>
<td>Fine Arts (1 course – 3 hours)</td>
<td>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 &amp; Society (Music Majors Only), MLIT 1333 Popular Music, THTR 1003 or 1003H Theatre Appreciation, THTR 1013 Musical Theatre Appreciation</td>
</tr>
</tbody>
</table>

### 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 2023 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)**
  - ________________(2003)
- **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.
MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in CHEMISTRY (BIOPHYSICAL)

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

J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

Department of Chemistry and Biochemistry

Notes:
- These mathematics and physics prerequisite requirements are substantial, and these courses and their prerequisites should be scheduled early in the student's program.
- Anytime a "for majors" course option is completed, it will suffice to complete the "not for majors" pre-requisite listed above.

MATHEMATICS (2 courses • 8 hours)
- MATH 2554 Calculus I
- MATH 2564 Calculus II

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.

CHEMISTRY (43 hours minimum)
- 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
  or
- CHEM 2263/2261L Analytical Chemistry

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.

BIOLOGY (3 courses • 11 hours)
- BIOL 1543/1541L Principles of Biology
- BIOL 2533/2531L Cell Biology

Select any BIOL lecture course numbered 3000 or higher:
- BIOL __________

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.