### Fulbright College Eight Semester Degree Completion Program

**Bachelor of Science in Physics | Computational Concentration 2016**

The following 4 semesters can be transferred to the UA

<table>
<thead>
<tr>
<th>Fall Semester 1</th>
<th>Hours</th>
<th>Spring Semester 1</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1013 Composition I</td>
<td>3</td>
<td>ENGL 1023 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1203 College Algebra</td>
<td>3</td>
<td>MATH 1213 Trigonometry or MATH 1284 Precalculus</td>
<td>3-4</td>
</tr>
<tr>
<td>CORE: Social Science</td>
<td>3</td>
<td>CORE: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>CORE: Fine Art</td>
<td>3</td>
<td>General Elective</td>
<td>3</td>
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Total Hours 12

<table>
<thead>
<tr>
<th>Fall Semester 2</th>
<th>Hours</th>
<th>Spring Semester 2</th>
<th>Hours</th>
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<tbody>
<tr>
<td>General Elective</td>
<td>3</td>
<td>†PHYS 2074 University Physics II</td>
<td>4</td>
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<tr>
<td>General Elective</td>
<td>3</td>
<td>† MATH 2564c Calculus II</td>
<td>4</td>
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<tr>
<td>CORE: Social Science</td>
<td>3</td>
<td>CORE: US History or American National Government</td>
<td>3</td>
</tr>
<tr>
<td>†PHYS 2054 University Physics I</td>
<td>4</td>
<td>CORE: Social Science</td>
<td>3</td>
</tr>
<tr>
<td>† MATH 2554c Calculus I</td>
<td>4</td>
<td>General Elective</td>
<td>3</td>
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Total Hours 17

<table>
<thead>
<tr>
<th>Fall Semester 3</th>
<th>Hours</th>
<th>Spring Semester 3</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>†CSCE 2004 Programming Foundations I</td>
<td>4</td>
<td>†CSCE 2014 Programming Foundations II</td>
<td>4</td>
</tr>
<tr>
<td>††PHYS 3113 Analytical Mechanics</td>
<td>3</td>
<td>† ASTR/PHYS 3000+ elective</td>
<td>4</td>
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<tr>
<td>†PHYS 2584 Elementary Differential Equations</td>
<td>4</td>
<td>† PHYS 3414 Electromagnetic Theory</td>
<td>4</td>
</tr>
<tr>
<td>†PHYS 2094 University Physics III</td>
<td>4</td>
<td>† MATH 2574 Calculus III</td>
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Total Hours 15

<table>
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<tr>
<th>Fall Semester 4</th>
<th>Hours</th>
<th>Spring Semester 4</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>††ASTR/PHYS 3000+ elective</td>
<td>4</td>
<td>††PHYS 4991 Physics Senior Seminar</td>
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<tr>
<td>†CSCE 4133 Algorithms</td>
<td>3</td>
<td>†† ASTR/PHYS 3000+ elective</td>
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<tr>
<td>†PHYS 3613 Modern Physics</td>
<td>3</td>
<td>†CSCE advanced elective or ASTR/PHYS 3000+ Elective or Advanced Elective</td>
<td>3-4</td>
</tr>
<tr>
<td>† PHYS 4073 Introduction to Quantum Mechanics</td>
<td>3</td>
<td>† Advanced Elective</td>
<td>3</td>
</tr>
<tr>
<td>† MATH 4423 Introduction to Partial Differential Equations</td>
<td>3</td>
<td>General Elective</td>
<td>1</td>
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<tr>
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<td>16</td>
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</table>

Total Hours 16

The following 4 semesters should be taken at the UA

<table>
<thead>
<tr>
<th>Fall Semester 3</th>
<th>Hours</th>
<th>Spring Semester 3</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Total Hours 17

This is not a substitution for the Catalog of Studies. Core areas must be completed as outlined in Catalog of Studies. To check transfer equivalency, refer to the Registrar's Office Transfer Equivalency Guide. More information can be found on the Fulbright Transfer Advising Center website. Core requirement hours may vary by individual, based on placement and previous credit granted. Once all core requirements are met, students may substitute a three-hour (or more) general elective in place of a core area.

*Placement in the Math sequence is based on competency demonstrated by ACT/SAT exams or by taking the MPT at the UA. Students who can begin the Math sequence at higher levels can replace the pre-requisite MATH sequence courses with General Electives or other CORE courses.
† Meets 30/40-hour advanced credit hour requirements. See Graduation Requirements in the Catalog of Studies. ‡ Meets 24-hour rule (24 hours of 3000-4000 level courses in Fulbright College), in addition to meeting the 30/40-hour rules. See Degree Completion Program Policy in the Catalog of Studies.
## J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

### UNIVERSITY CORE REQUIREMENTS

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

<table>
<thead>
<tr>
<th>MATHEMATICS (1 course • 3-4 hours)</th>
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</thead>
<tbody>
<tr>
<td>MATH 1203 College Algebra, MATH 1204 College Algebra with Review, MATH 1313 Quantitative Reasoning, or any higher level math course, including STAT 2303.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>NATURAL SCIENCES (2 courses w/ matching labs • 8 hours)</th>
<th></th>
</tr>
</thead>
</table>
| ASTR 2003/2001L Survey of the Universe  
BIOL 1003/1001L Environmental Science  
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 1133/1131L University Chemistry for Engineers II  
CHEM 1213/1211L Chemistry for Majors I  
CHEM 1223/1221L Chemistry for Majors II  
ENS 1003/1001L Environmental Science  
ENTO 1023/1021L Insects, Science, and Society  
GEOS 1113/1111L General Geology  
GEOS 1133/1131L Environmental Geology  
PHYS 1023/1021L Physics and 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  |

*Honors students only

**Note:** U.S. History & Government courses and HUMAN courses cannot be used more than once within the University Core.

<table>
<thead>
<tr>
<th>SOCIAL SCIENCES (3 courses from at least 2 fields • 9 hours)</th>
<th></th>
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</thead>
</table>
| AGEC 1103 Principles of Agricultural Microeconomics  
AGEC 2103 Principles of Agricultural Macroeconomics  
ANTH 1023 Intro to Cultural Anthropology  
COMM 1023 Communication in a Diverse World  
ECON 1023 Principles of Microeconomics  
ECON 2023 Principles of Macroeconomics  
ECON 2143 Basic Economics: Theory and Practice  
EOS 1123 Human Geography  
EOS 2003 World Regional Geography  
HESC 1403 Life Span Development  
HESC 2413 Family Relations  
HESC 2603 Rural Sociology  
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 1013 General Sociology  
SOCI 2033 Social Problems  |

<table>
<thead>
<tr>
<th>ENGLISH COMPOSITION (2 courses • 6 hours)</th>
<th></th>
</tr>
</thead>
</table>
| ENGL 1013 Composition I  
ENGL 1023 Composition II  |

<table>
<thead>
<tr>
<th>FINE ARTS (1 course • 3 hours)</th>
<th></th>
</tr>
</thead>
</table>
| 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 Music Lecture  
MLIT 1013 Music Lecture for Music Majors  
THTR 1003 Theatre Appreciation  
THTR 1013 Musical Theatre Appreciation  |

<table>
<thead>
<tr>
<th>HUMANITIES (1 course • 3 hours)</th>
<th></th>
</tr>
</thead>
</table>
| 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, 500-1900  
HUMN 2124H* Honors Birth of Modern Culture, 1600-1900  
LARC 1003 The American Landscape  
MLIT 1003 Music Lecture  
MLIT 1013 Music Lecture for Music Majors  
THTR 1003 Theatre Appreciation  
THTR 1013 Musical Theatre Appreciation  |

<table>
<thead>
<tr>
<th>U.S. HISTORY &amp; GOVERNMENT (1 course • 3 hours)</th>
<th></th>
</tr>
</thead>
</table>
| HIST 2003 History of the American People to 1877  
HIST 2013 History of the American People 1877 to Present  
PLSC 2003 American National Government  |

Students transferring less than 24 hours are required to take:

**UNIV 1001:** University Perspectives (freshmen must complete during first year)
Graduation Requirements Checklist

In addition to the specific course requirements for your degree plan and your major, be aware that there are general graduation requirements that every student in Fulbright College must complete. University graduation requirements are outlined in the Catalog of Studies, as are the College requirements. Some of that information is highlighted here. Refer to the Catalog of Studies when necessary.

1. **Minimum Total Semester Hour Requirement – 120 graduation hours**

2. **Residency Requirement**
   a) **30 Hour Rule (University Requirement)**
      To ensure the opportunity to engage with faculty and peers in their area of study at the University of Arkansas (UA), Fayetteville, students must fulfill the UA Enrollment Requirement (formerly the "Residence Requirement"):
      1. Earn a minimum of 30 semester hours at the University of Arkansas, Fayetteville campus—this includes UA faculty-led study abroad classes, online/on-campus classes, and Global Campus courses; and all other courses paid towards Fayetteville campus tuition and fees;
      2. These 30 semester hours are to be upper-division semester hours required for the completion of a degree program;
      3. Additional hours in residence can be required for completing a minor;
      4. Hours earned in another school or college at UA (Fayetteville) may be used to satisfy this requirement—with appeal of appropriate faculty curriculum committee;
      5. Appeals to the standards identified in this policy should be made to the Academic Standards Committee.

   b) **24 Hour Rule (College Requirement)**
      A student graduating from Fulbright College must have completed at least 24 hours of 3000 and 4000 level courses from departments in Fulbright College.

3. **40 Hour Rule**
   Students must present for degree credit at least 40 hours of work in courses numbered 3000 and above. Included in this 40 hours can be courses numbered 2000 if each has a specific course designated as a prerequisite. The following courses are excluded: MILS 2001 and 2011, AERO 2001 and 2011, and foreign language courses numbered 2003 and 2013. These courses may be taken from other colleges or universities. However, do not forget the college residency requirement, specifically the 24 HOUR RULE.

4. **Grade-Point Average**
   Students graduating from Fulbright College must have a minimum cumulative GPA of 2.00.

5. **35% Online Rule**
   Any student pursuing an on-campus (face-to-face) undergraduate degree from the University of Arkansas may take up to 35 percent, of the total credit hours required to complete the degree, of regular online (semester/summer) and self-paced online (correspondence) courses for degree credit.

6. **50% Rule**
   A student graduating with a major or a minor from Fulbright College must have completed a minimum of 50 percent of degree credit work within the Fulbright College major or within the Fulbright College minor at the University of Arkansas through courses completed at the University of Arkansas, Fayetteville campus as defined in the University Residency Requirement.

7. **Writing Requirement**
   Students graduating from Fulbright College must write a research/analytical paper for at least one upper division course in his/her major. Satisfactory completion of an honors project or a senior thesis may fulfill this requirement. Each department has determined its own procedures for certifying completion of this requirement. Questions should be referred to the departmental chairperson.