# Fulbright College Eight Semester Degree Completion Program

**Bachelor of Science in Physics | Optics 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>General Elective</td>
<td>3</td>
<td>CORE: Humanities</td>
<td>3</td>
</tr>
<tr>
<td>General Elective</td>
<td>2</td>
<td>CHEM 1123/1121L University Chemistry II/Lab</td>
<td>4</td>
</tr>
<tr>
<td>CHEM 1103/1101L University Chemistry I/Lab</td>
<td>4</td>
<td>CORE: Social Science</td>
<td>3</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
<td><strong>Total Hours</strong></td>
<td>16-17</td>
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</tbody>
</table>

The following 4 semesters should be taken at the UA

<table>
<thead>
<tr>
<th>Fall Semester 2</th>
<th>Hours</th>
<th>Spring Semester 2</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>CORE: Fine Art</td>
<td>3</td>
<td>PHYS 2074 University Physics II</td>
<td>4</td>
</tr>
<tr>
<td>General Elective</td>
<td>1</td>
<td>MATH 2564 Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>CORE: Social Science</td>
<td>3</td>
<td>CORE: US History or American National Government</td>
<td>3</td>
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<tr>
<td>PHYS 2054 University Physics I</td>
<td>4</td>
<td>CORE: Social Science</td>
<td>3</td>
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<tr>
<td>MATH 2554 Calculus I</td>
<td>4</td>
<td>General Elective</td>
<td>1</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
<td><strong>Total Hours</strong></td>
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</table>

<table>
<thead>
<tr>
<th>Fall Semester 3</th>
<th>Hours</th>
<th>Spring Semester 3</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Elective</td>
<td>3</td>
<td>PHYS 3213 Electronics in Experimental Physics</td>
<td>3</td>
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<tr>
<td>MATH 2574 Calculus III</td>
<td>4</td>
<td>MATH 4423 Intro to Partial Differential Equations</td>
<td>3</td>
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<tr>
<td>PHYS 2584 Elementary Differential Equations</td>
<td>4</td>
<td>PHYS/ASTR 3000+ electives</td>
<td>4</td>
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<tr>
<td>PHYS 2094 University Physics III</td>
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<td>General Elective</td>
<td>3</td>
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<tr>
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<td>General Elective</td>
<td>2</td>
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<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
<td><strong>Total Hours</strong></td>
<td>15</td>
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</table>

<table>
<thead>
<tr>
<th>Fall Semester 4</th>
<th>Hours</th>
<th>Spring Semester 4</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Elective</td>
<td>2</td>
<td>PHYS 4991 Physics Senior Seminar</td>
<td>1</td>
</tr>
<tr>
<td>PHYS/ASTR 3000+ electives</td>
<td>3</td>
<td>PHYS 3414 Electromagnetic Theory</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3613 Modern Physics</td>
<td>3</td>
<td>PHYS 4734 Intro to Laser Phys -or- PHYS 4773 Intro to Optical Props of Mats</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 4073 Introduction to Quantum Mechanics</td>
<td>3</td>
<td>PHYS/ASTR 3000+ electives</td>
<td>4</td>
</tr>
<tr>
<td>PHYS 3544 Optics</td>
<td>4</td>
<td>General Elective</td>
<td>0-1</td>
</tr>
<tr>
<td><strong>Total Hours</strong></td>
<td>15</td>
<td><strong>Total Hours</strong></td>
<td>13-14</td>
</tr>
</tbody>
</table>

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.
**UNIVERSITY CORE REQUIREMENTS**

Minimum degree credit hours required to graduate = **120**

(Core + Major + General Electives)

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**MATHEMATICS (1 course • 3-4 hours)**
- MATH 1203 College Algebra, MATH 1204 College Algebra with Review, or any higher level math course, including STAT 2303.

**NATURAL SCIENCES (2 courses w/ matching labs • 8 hours)**
- ANTH 1013/1011L Intro to Biological Anthropology
- 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
- ENES 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 HUMN courses cannot be used more than once within the University Core.

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

**SOCIAL SCIENCES (3 courses from at least 2 fields • 9 hours)**
- 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 2023 Principles of Microeconomics
- ECON 2143 Basic Economics: Theory and Practice
- GEOG 1123 Human Geography
- GEOG 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 114H* Honors Roots of Culture to 500 C.E.
- HUMN 214H* Honors Birth of Modern Culture, 1600-1900
- LARC 1003 The American Landscape
- MUS 2103 Music Lecture
- MUS 2113 Music Lecture for Musicians
- THTR 1003 Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

**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
- MUS 2103 Music Lecture
- MUS 2113 Music Lecture for Musicians
- THTR 1003 Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

**HUMANITIES (1 course • 3 hours)**
- 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, 500-1600
- HUMN 214H* Honors Birth of Modern Culture, 1600-1900
- LARC 1003 The American Landscape
- MUS 2103 Music Lecture
- MUS 2113 Music Lecture for Musicians
- THTR 1003 Theatre Appreciation
- THTR 1013 Musical Theatre Appreciation

**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
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.