Bachelor of Science in Physics (2014-2015)

35 hour State Minimum Core - These courses can be taken at NWACC (NWACC courses in parenthesis)

<table>
<thead>
<tr>
<th>English Composition: 6 hours</th>
<th>Mathematics: 3 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 1013 – English Compositiön</td>
<td>MATH 1203 or MATH 1204 – College Algebra, or higher: see below in “Major Requirements”</td>
</tr>
<tr>
<td>ENGL 1023 – English Compositiön II</td>
<td>MATH 1203; MATH 1204; MATH 1205</td>
</tr>
</tbody>
</table>

**NOTE:** Due to pre-requisites, MATH 1313 is not a recommended course for PHYS majors.

<table>
<thead>
<tr>
<th>Fine Arts: 3 hours</th>
<th>Natural Science: 9 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARHS 1003 – Art History Lecture (ARHS 1003)</td>
<td>CHEM 1103/1101L – Univ. Chem I (CHEM 1104)</td>
</tr>
<tr>
<td>COMM 1003 – Film Lecture (COMM 1003)</td>
<td>CHEM 1123/1121L – Univ. Chem II (CHEM 1124)</td>
</tr>
<tr>
<td>MLIT 1003 – Music Appreciation (MUSI 1003)</td>
<td>PHYS 2054 – University Physics I (PHYS 2054)</td>
</tr>
<tr>
<td>THTR 1003 – Intro to Theatre (DRAM 1003)</td>
<td>PHYS 2074 – University Physics II (PHYS 2074)</td>
</tr>
<tr>
<td>ART 1023 – Studio Art (core but not offered at UA)</td>
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</tr>
</tbody>
</table>

**Humanities: 3 hours**

- FLAN 2003 – Any World Language Intermediate I
- PHIIL 2003 – Intro to Philosophy (PHIL 2003)
- PHIIL 2103 – Intro to Ethics (PHIL 2103)
- PHIIL 2203 – Logic (PHIL 2203)
- WLIT 1113 – World Lit I (ENGL 2213)
- WLIT 1123 – World Lit II (ENGL 2223)

The above courses need to be completed so that students are able to begin Calculus I and/or Physics I at the time of transfer.

<table>
<thead>
<tr>
<th>Pre-Requisite Mathematics: up to 4 hrs</th>
<th>Mathematics: 19 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 1213 – Trigonometry (MATH 1213) -OR- MATH 1284 – Precalculus (MATH 1285)</td>
<td>MATH 2554 – Calculus I (MATH 2554; 2525; 2555)</td>
</tr>
<tr>
<td>MATH 2564 – Calculus II (MATH 2564; 2565)</td>
<td>MATH 2574 – Calculus III (MATH 2574)</td>
</tr>
<tr>
<td>MATH 2584 – Diff E/Q &amp; Laplace Transform (MATH 2584)</td>
<td>MATH 3423 – Advanced Applied Mathematics</td>
</tr>
<tr>
<td>NOTE: Courses necessary to complete the AA/AS at NWACC can count for general electives.</td>
<td></td>
</tr>
</tbody>
</table>

**US History/Government: 3 hours**


**Social Science: 9 hours**

- ANTH 1023 – Cultural Anthropology (ANTH 1023)
- ECON 2013 – Macroeconomics (ECON 2013)
- ECON 2023 – Microeconomics (ECON 2023)
- GEOG 1125 – Human Geography (GEOG 1125)
- GEGS 2003 – World Regional Geography (GEGS 2013; GEGS 2133)
- HESC 1403 – Life Span Development (PSYC 2103)
- HESC 2413 – Family Relations (PSYC 2063)
- HIST 1013 – Institutions/Ideas of World Civ I (HIST 1013; HIST 1033; HIST 1113)
- HIST 1123 – Institutions/Ideas of World Civ II (HIST 1013; HIST 1043; HIST 1123)
- PLSC 2203 – State & Local Gov’t (PLSC 2203)
- PSYC 2013 – General Psychology (PSYC 2013)
- SOCJ 2013 – General Sociology (SOCJ 2013)
- SOCJ 2033 – Social Problems (SOCJ 2033)

**Humanities:**

- Communications: 3 hours
  - FLAN 2003 – Any World Language Intermediate I
  - PHIIL 2003 – Intro to Philosophy (PHIL 2003)
  - PHIIL 2103 – Intro to Ethics (PHIL 2103)
  - PHIIL 2203 – Logic (PHIL 2203)
  - WLIT 1113 – World Lit I (ENGL 2213)
  - WLIT 1123 – World Lit II (ENGL 2223)

**Mathematics:**

- MATH 2554 – Calculus I (MATH 2554; 2525; 2555)
- MATH 2564 – Calculus II (MATH 2564; 2565)
- MATH 2574 – Calculus III (MATH 2574)
- MATH 2584 – Diff E/Q & Laplace Transform (MATH 2584)
- MATH 3423 – Advanced Applied Mathematics

**Physics:**

- PHYS 2054 – University Physics I (PHYS 2054)
- PHYS 2074 – University Physics II (PHYS 2074)

**Chemistry:**

- CHEM 1103/1101L – College Chem I (CHEM 1104)
- CHEM 1123/1121L – College Chem II (CHEM 1124)

**Required General Electives:** Hours vary; discuss with your advisor.

Bobcats must complete one concentration below to be discussed with their departmental advisor: 16 hours minimum

- Astronomy
- Biophysics
- Computational
- Electronics
- Geophysics (24 hours minimum)
- Optics
- Professional

This form is a guide and should not substitute for the University Catalog. Please see your advisor regularly. This is not a degree plan. This is not a contract. Additional preparatory courses may be necessary based on your placement test scores. You must see your advisor for proper course placement & selection.

**General Transfer Rules:**

1. No more than 68 hours of lower-division (fr so) course work will be used for the student’s degree; 2. Students must complete at least 50% of major requirements within the appropriate department in Fulbright College; 3. Students must complete at least 30 upper-division (jr sr) courses at the UofA; 4. General transfer credit is awarded for courses with an earned grade of “C” or higher; 5. Other graduation rules apply – see your advisor.

http://catalog.uark.edu/undergraduatecatalog/academiregulations/transferofcredit/

NOTE: no degree credit is awarded for a world language course at the 1003 (Elementary I) level if the student is continuing with a language taken in high school or did not complete two years of a world language in high school.

Students admitted to the university with a completed two-year college degree from an Arkansas state-supported two-year or four-year college or university, as stated in Act 182, may have general education (core) requirements waived; however, students must still complete any lower division, discipline specific courses required for the major.