Bachelor of Science in Chemistry-Biophysical Chemistry (2014-2015)

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

### English Composition: 6 hours
- ENGL 1013 – English Composition I (ENGL 1013)
- ENGL 1023 – English Composition II (ENGL 1023)

### Fine Arts: 3 hours
- ARHS 1003 – Art History Lecture (ARHS 1003)
- COMM 1003 – Film Lecture (COMM 1003)
- MLIT 1003 – Music Appreciation (MUSI 1003)
- THTR 1003 – Intro to Theatre (DRAM 1003)
- ART 1053 – Studio Art (core but not offered at UA)

### Humanities: 3 hours
- PHIL 2003 – Intro to Philosophy (PHIL 2003)
- PHIL 2103 – Intro to Ethics (PHIL 2103)
- WLIT 1113 – World Lit I (ENGL 2213)
- WLIT 1123 – World Lit II (ENGL 2223)

### Mathematics: 3 hours
- MATH 1203 or MATH 1204 – College Algebra, or higher: see below in "Major Requirements" (MATH 1203; MATH 1204; MATH 1205)

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

### Natural Science: 9 hours
- BIOL 1543/1541L – Principles of Biology (BIOL 1544)
- CHEM 1103/1101L – College Chem I (CHEM 1104)
- CHEM 1123/1121L – College Chem II (CHEM 1124)
- PHYS 2054 – University Physics I (PHYS 2054)
- PHYS 2074 – University Physics II (PHYS 2074)

### Pre-Requisite Mathematics: up to 4 hrs
**NOTE:** These courses will typically count as general electives toward the CHEMBS degree at the UofA. Students are encouraged to begin the math sequence at the highest appropriate level. See advisor for proper placement.

- MATH 1213 – Trigonometry (MATH 1213) – OR
- MATH 1284 – Precalculus (MATH 1285)

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

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

**NOTE:** courses necessary to complete the AA/AS at NWACC could count for general electives.

### Mathematics: 8 hours
- MATH 2554 – Calculus I (MATH 2554; 2525; 2555)
- MATH 2564 – Calculus II (MATH 2564; 2565)

### Physics: 8 hours
- PHYS 2054 – University Physics I (PHYS 2054)
- PHYS 2074 – University Physics II (PHYS 2074)

### Biology: 11 hours
- BIOL 1543/1541L – Principles of Biology (BIOL 1544)
- BIOL 2533/2531L – Cell Biology (BIOL 2534)
- BIOL ________ (numbered 3000 or higher)

### Chemistry: 43 hours
- CHEM 1103/1101L – College Chem I (CHEM 1104)
- CHEM 1123/1121L – College Chem II (CHEM 1124)

**NOTE:** Students should complete CHEM 1 and CHEM 2 prior to transferring to the UofA in order to remain in sequence and to progress smoothly in the major.

- CHEM 2263/2261L – Analytical Chemistry
- CHEM 3713/3712L – Organic Chemistry I/majors^ *Can take CHEM 3603/3601L & CHEM 3613/3611L
- CHEM 3504 – Physical Chemistry I
- CHEM 3514/3512L – Physical Chemistry II
- CHEM 4813H – Honors Biochemistry I
- CHEM 4843H – Honors Biochemistry II OR
- CHEM 3813 – Introduction to Biochemistry
- CHEM 4723 – Experimental Methods in Organic & Inorganic Chemistry
- CHEM 4213/4211L – Instrumental Analysis
- CHEM 4853 – Biochemical Techniques OR

Completion of a senior thesis based on independent research wherein at least 1 credit hour is earned in CHEM 400V (chemistry research) and/or CHEM 498V (senior thesis) during each of 3 different semesters.

**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 preparationary 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/academicregulations/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.