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

36 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
- FLAN 2003 – Any World Language Intermediate I
- PHIL 2003 – Intro to Philosophy (PHIL 2003)
- PHIL 2103 – Intro to Ethics (PHIL 2103)
- PHIL 2203 – Intro to Logic (PHIL 2203)
- WLFIT 1113 – World Lit I (ENGL 2223)

Mathematics: 3 hours
- MATH 1203 or MATH 1204 – College Algebra, or higher: see below in “Major Requirements”
- 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 2013/2011L – College Physics I (PHYS 2014)
- PHYS 2033/2031L – College Physics I (PHYS 2034)
- PHYS 2054 – University Physics I (PHYS 2054)
- PHYS 2074 – University Physics II (PHYS 2074)

Physics: 8 hours
- PHYS 2013/2011L – College Physics I (PHYS 2014)
- PHYS 2033/2031L – College Physics I (PHYS 2034)
- PHYS 2054 – University Physics I (PHYS 2054)
- PHYS 2074 – University Physics II (PHYS 2074)

Biology: 15 hours
- BIOL 1543/1541L – Principles of Biology (BIOL 1544)
- BIOL 2013/2011L – General Microbiology (BIOL 2014)
- BIOL 2533/2531L – Cell Biology (BIOL 2534)
- BIOL 2323 – General Genetics
- BIOL 4233 – Genomics and Bioinformatics

Chemistry: 38 hours
- CHEM 1103/1101L – College Chem I (CHEM 1104)
- CHEM 1123/1121L – College Chem II (CHEM 1124)

Note: Students should complete CHEM I & CHEM II 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 3703/3702L – Organic Chemistry I/majors a
- CHEM 3713/3712L – Organic Chemistry II/majors a

- CAN take CHEM 3603/3601L and CHEM 3613/3611L
- CHEM 4353/4351L – Elements of Physical Chem
- CHEM 3504 – Physical Chemistry I
- CHEM 3514/3512L – Physical Chemistry II
- CHEM 4813H – Honors Biochemistry I
- CHEM 4843H – Honors Biochemistry II
- CHEM 3813 – Introduction to Biochemistry
- CHEM 4723 – Experimental Methods in Organic & Inorganic Chemistry

Choose one of the following three:
- CHEM 4213/4211L – Instrumental Analysis
- CHEM 4123 – Advanced Inorganic Chemistry I
- CHEM 4133 – Bioanalytical Chemistry
- CHEM 4853 – Biochemical Techniques

- 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 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 (I/sa) 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 Fullbright College; 3) Students must complete at least 30 upper-division (p/sa) 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.

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 in high school or did not complete two years of a world language in high school.