Chemistry with Biochemistry option and Major Requirements (Bachelor of Science) – Catalog Year 2010

Major Requirements for Chemistry with Biochemistry option:

- Cognate Science and Mathematics Requirements:
  - MATH 2554 Calculus I (MATH 1203 & MATH 1213; or MATH 1285)
  - MATH 2564 Calculus II (MATH 2554)
  - PHYS 2013/2011L College Physics I (MATH 1203 & MATH 1213)
  - PHYS 2033/2031L College Physics II (PHYS 2013)
  - PHYS 2054/2050L University Physics I (Pre or Co-req: MATH 2554)
  - PHYS 2074/2070L University Physics II (PHYS 2054; Pre or Co-req: MATH 2564)
  - BIOL 1543/1541L Principles of Biology
  - BIOL 2323 General Genetics (BIOL 1543/1541L, CHEM 1123/1121L, and MATH 1203 or STAT 2023 or equiv.)

- A minimum of 39 hours in Chemistry including:
  - CHEM 1213/1211L Chemistry for Majors I
  - CHEM 1103/1101L University Chemistry I (MATH 1203)
  - CHEM 1123/1121L University Chemistry II (MATH 1103 & MATH 1203)
  - CHEM 2263/2261L Analytical Chemistry Lecture (CHEM 1123/1121L or CHEM 1074/1071L, MATH 1203)
  - CHEM 3504 Physical Chemistry (CHEM 1123/1121L, PHYS 2074; Pre or Co: MATH 2564)
  - CHEM 3514/3512L Physical Chemistry II (CHEM 3504) OR CHEM 3453/3451L Elements of Physical Chemistry (CHEM 2262,2272,PHYS 2033/2031L, MATH 2554 or 2043)
  - CHEM 4853 Biochemical Techniques (Pre or Co: CHEM 5813 or 3813) or completion of a senior thesis based on independent research wherein at least 1 credit hour is earned CHEM 500V (chemistry research) and/or CHEM 498V (senior thesis) during each of 3 different semesters
  - CHEM 5813 Biochemistry I (CHEM 3613/3611L or CHEM 3713/3712L) OR CHEM 3543/3541L (CHEM 3504, 3514 or 3512L)
  - CHEM 4213/4211L Instrumental Analysis (CHEM 2262/2272; 3613/3611L or 3713/3712L; 3514 or 3453) OR CHEM 4123 Advanced Inorganic Chemistry I (CHEM 3514)

For more information on Chemistry, contact the Department of Chemistry/Biochemistry: CHEM 119 (479)-575-4601 chemistry.uark.edu

***This form is NOT a substitute for the Catalog of Studies. Students should verify this information with their advisor, their degree audit, and the Catalog of Studies.***

Requirements for Departmental Honors in Chemistry:

Students with good academic backgrounds and strong interests in research are encouraged to participate in the department of chemistry and biochemistry honors program. Entrance into the program is normally during the sophomore year or the first semester of the junior year, and a minimum cumulative GPA of 3.5 is required. Entrance is initiated by consulting the faculty academic adviser, who will help arrange conferences with potential faculty research project advisers. When there is agreement between the student and the adviser on a research project or area, an Honors Advisory Committee is set up to supervise the honors candidate’s program. The heart of the program is the research project, but students are encouraged to broaden their experience beyond required courses within chemistry, the natural sciences, the social sciences, and the humanities. Participation in Honors Colloquia, honors sections of regular courses, and chemistry departmental and divisional seminars is especially recommended. All honors candidates enroll in the spring semester Honors Seminar (CHEM 4011H), and senior honors students must make at least one seminar presentation. All honors candidates will be required to complete an honors thesis and take 12 hours (which may include 6 hours of thesis) in Honors Studies. The thesis is required in the spring semester of the senior year, followed by an oral presentation. On the basis of these written and oral reports and their evaluation of all aspects of the student’s honor program, the candidate’s Honors Advisory Committee will recommend whether or not the distinction “Chemistry or Biochemistry Scholar Cum Laude” should be awarded. Higher degree distinctions are recommended only in truly exceptional cases and are based upon the whole of the candidate’s program of honors studies.

40-Hour Rule

Students must complete 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, with the exception of MILS 2001 and 2011, AERO 2001 and 2011, and foreign language courses numbered 2003 and 2013.

24-Hour Rule

A student graduating from Fulbright College must complete at least 24 hour of work in courses numbered 3000 and above from departments within the Fulbright College of Arts and Sciences.