College of Arts and Sciences.

A student graduating from Fulbright College must complete at least 24 hours of 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.

Students must complete at least 40 hours of work in courses numbered 3000 and above from departments within the Fulbright College of Arts and Sciences.

**Major Requirements for Chemistry with Biophysical option:**

- **Cognitive Science and Mathematics Requirements:**
  - MATH 2554 Calculus I (MATH 1203 & MATH 1213 or MATH 1285) and MATH 2564 Calculus II (MATH 2554)
  - PHYS 2054/2050L University Physics I (Pre or Co: MATH 2554) and PHYS 2074/2070L University Physics II (PHYS 2054/Pre or Co: MATH 2564)

  And 11 hours from the Biological Sciences to include:
  - BIOL 1543/1541L Principles of Biology and BIOL 2533/2531L Cell Biology (BIOL 1543/1541L, Pre or Co-req: CHEM 1123/1121L or CHEM 1223/1221L)
  - And one additional BIOL lecture course numbered above 3000

- **A minimum of 43 hours in Chemistry including:**
  1. CHEM 1213/1211L Chemistry for Majors I and CHEM 1223/1221L Chemistry for Majors II (CHEM 1213/1211L or CHEM 1103/1101L)
  2. CHEM 1103/1101L University Chemistry I (MATH 1203) and CHEM 1123/1121L University Chemistry II (CHEM 1103; MATH 1203)
  3. CHEM 2263/2261L Analytical Chem Lecture (CHEM 1123/1121L or CHEM 1074/1071L; MATH 1203)
  4. CHEM 3504 Physical Chemistry (CHEM 1123/1121L, PHYS 2074, Pre or Co: MATH 2564) and CHEM 3514/3512L Physical Chemistry II (CHEM 3504)
  5. CHEM 3603/3601L Organic Chemistry I (CHEM 1123/1121L) and CHEM 3613/3611L Organic Chemistry II (CHEM 1123/1121L, CHEM 3603/3601L)
  6. CHEM 3703/3702L Organic Chemistry I for Majors (CHEM 1123/1121L) and CHEM 3713/3712L Organic Chemistry II for Majors (CHEM 1123/1121L)
  7. CHEM 4213/4211L Instrumental Analysis (CHEM 2262, CHEM 2272, CHEM 3613/3611L or (CHEM 3713/3712L, CHEM 3514 or CHEM 3453)
  8. CHEM 4853 Biochemical Techniques (Pre or Co-req: CHEM 5813 or CHEM 3813) or completion of a senior thesis based on independent research wherein at least 1 credit hour is earned in CHEM 500V (chemistry research) and/or CHEM 4981 (senior thesis) during each of 3 different semesters

- **And 6 hours from:**
  1. CHEM 5813 Biochemistry I (CHEM 3713/3712L or CHEM 3613/3611L, and CHEM 3514 or CHEM 3613/3611L) and CHEM 5843 Biochemistry II (CHEM 5813)
  2. CHEM 3813 Intro to Biochem (CHEM 3613/3611L or CHEM 3713/3712L or CHEM 2613/2611L) and CHEM 4723 Exp. Methods in Organic/Inorganic Chem (CHEM 5813/3811L, or CHEM 3713, CHEM 3504, CHEM 3514)

For more information on Chemistry, you can 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 and defend 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 number 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 hours of work in courses numbered 3000 and above from departments within the Fulbright College of Arts and Sciences.