Major Requirements for Chemistry:

- A minimum of forty hours in Chemistry including (see also cognate math/science requirements below):
  - CHEM 1213/1211L Chemistry for Majors I AND CHEM 1223/1221L Chemistry for Majors II (CHEM 1213/1211L or CHEM 1103/1101L)
  - OR
  - CHEM 1103/1101L University Chemistry I (MATH 1203) AND CHEM 1123/1121L University Chemistry II (CHEM 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-req: MATH 2564)
  - CHEM 3514/3512L Physical Chemistry II (CHEM 3504)
  - CHEM 3703/3702L Organic Chemistry I (CHEM 1123/1121L)
  - CHEM 3713/3712L Organic Chemistry II for Majors (CHEM 1123/1121L)
  - CHEM 4123 Advanced Inorganic Chemistry I (CHEM 3514)
  - CHEM 4213/4211L Instrumental Analysis (CHEM 2263, CHEM 2272, CHEM 3613/3611L or CHEM 3713/3712L; CHEM 3514 or CHEM 3453)
  - CHEM 4723 Experimental Methods in Organic and Inorganic Chemistry (CHEM 3504, 3514, & CHEM 3613/3611L or CHEM 3713/3712)
  - At least one additional advanced lecture course with CHEM 3514 Physical Chemistry II as a prerequisite

Additional math and science requirements:

A minimum of 18 hours of science outside of chemistry and including mathematics through MATH 2574 and physics through PHYS 2074 are required. These mathematics and physics courses are prerequisites for some advanced courses and should be scheduled early in the student’s program. Some work in the biological sciences is recommended. This program meets the minimum requirements for certification by the American Chemical Society if CHEM 3813 (or CHEM 5813/5843) is included.

Mathematics:

- MATH 2554 Calculus I
- MATH 2564 Calculus II
- MATH 2574 Calculus III

Physics:

- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

- For more information on Chemistry, contact the Department of Chemistry/Biochemistry:
  - CHEM 119
  - 479-575-4648
  - 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 hour of work in courses numbered 3000 and above from departments within the Fulbright College of Arts and Sciences.