MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in CHEMISTRY (BIOPHYSICAL)

MINIMUM DEGREE CREDIT HOURS REQUIRED TO GRADUATE = 120 (CORE + MAJOR + GENERAL ELECTIVES)

J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

Catalog year: 2022

Fulbright College Advising Center
CORD 132
479.575.4801
fulbrightadvising.uark.edu

Please visit catalog.uark.edu for an extensive list of graduation and prerequisite requirements.

Department of Chemistry and Biochemistry
101 CHEM
479.575.4601
chemistry.uark.edu

MATHEMATICS (2 courses • 8 hours)
- MATH 2554 Calculus I
- MATH 2564 Calculus II

PHYSICS (2 courses • 8 hours)
- PHYS 2054 University Physics I
- PHYS 2074 University Physics II

Note: These mathematics and physics prerequisite requirements are substantial, and these courses and their prerequisites should be scheduled early in the student’s program.

BIOLOGY (3 courses • 11 hours)
- BIOL 1543/1541L Principles of Biology
- BIOL 2533/2531L Cell Biology

Select any BIOL lecture course numbered 3000 or higher:
- BIOL ____________

CHEMISTRY WRITING REQUIREMENT
- Satisfied by the formal research/analytical reports required in Physical Chemistry Laboratory—CHEM 3451L or CHEM 3512L—or by completing an honors thesis.

CHEMISTRY (43 hours minimum)
- CHEM 1203/1201L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II
  or
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
  or
- CHEM 2263/2261L Analytical Chemistry
  or
- CHEM 3603/3601L Organic Chemistry I
- CHEM 3613/3611L Organic Chemistry II
  or
- CHEM 3703/3702L Organic Chemistry for Majors I
- CHEM 3713/3712L Organic Chemistry for Majors II
  or
- CHEM 3504 Physical Chemistry I (fall only)
  (pre-requisite: CHEM 2263 & PHYS 2074; pre or co-requisite: MATH 2564)
- CHEM 3514/3512L Physical Chemistry II
  or
- CHEM 4813H Honors Biochemistry I
- CHEM 4843H Honors Biochemistry II
  or
- CHEM 3813 Elements of Biochemistry
  (pre-requisite: CHEM 3613/3611L)
- CHEM 4723 Experimental Methods in Organic Chemistry (fall only)
  (pre-requisite: CHEM 3613/3611L)
  or
- CHEM 4213/4211L Instrumental Analysis (spring only)
  (pre-requisite: CHEM 2263/2261L & CHEM 3613/3611L)
  or
- CHEM 4853 Biochemical Techniques (spring only)
  (pre-requisite: CHEM 3813 or CHEM 4843H)
  or
- Completion of a senior thesis based on independent research wherein at least one credit hour is earned in CHEM 400V (chemistry research) and/or CHEM 498V (senior thesis) during each of three different semesters.

Note: Anytime a "for majors" course option is completed, it will suffice to complete the "not for majors" prerequisite listed above.