Fulbright College Honors Program
Main 517
479-575-2509
fulbrighthonors.uark.edu

Bachelor of Arts in Chemistry/Biochemistry
Requirements
Catalog Year: 2014

Department of Chemistry & Biochemistry
CHEM 101
479-575-4601
chemistry.uark.edu

Core Requirements

Philosophy (3 hours):
- PHIL 2003H or 2003 Intro to Philosophy

Fine Arts (6 hours):
- HUMN 2114H waives 3 hour Fine Arts
- ARCH 1003H or 1003 Architecture Lecture
- ARHS 1003H or 1003 Art Lecture
- COMM 1003H or 1003 Film Lecture
- DANC 1003H or 1003 Intro to Dance
- THTR 1003H or 1003 Theatre Lecture
- MLIT 1003H or 1003 Music Lecture
- MLIT 1013H or 1013 Music Lecture for Music Majors

Option 1

World Civilization (6 hours):
- HIST 1113H or 1113 World Civilization I
- HIST 1123H or 1123 World Civilization II

World Literature (6 hours):
- WLT 1113H or 1113 World Literature I
- WLT 1123H or 1123 World Literature II
- World Language Literature Course, any other WLT course, CLST 1003 or CLST 1013

Option 2

Advising H2P equivalencies
Completing Replaces
- HUMN 1114H HIST 1113H
- HUMN 1124H WLT 1113H
- HUMN 2114H HIST 1123H
- HUMN 2124H WLT 1123H ** HUMN colloquium

** Note: Students who complete the fourth semester of Honors Roots Culture, HUMN 2124H, will receive a 3-hour waiver for the Humanities Colloquium requirement

Natural Sciences & Mathematics:
Core—15-16 hours: 8 hours must at honors level

Natural Sciences (12 hours):
- At least 4 hours must be chosen from biological and 4 hours from physical

Biological Sciences:
- ANTH 1013H/1011L or 1013/1011L Intro to Biological Anthropology
- BIOL 1543/1541L or 1543/1541L Principles of Biology
- BIOL 1603/1601L Principles of Zoology
- BIOL 1613/1611L Plant Biology
- BIOL 2013/2011L General Microbiology

Physical Sciences:
- ASTR 2003H/2001L or 2003/2001L Survey of the Universe
- CHEM 1103/1101L University Chemistry I
- CHEM 1123H/1121L or 1123/1121 University Chemistry II
- GEOL 1113H/1111L or 1113/1111L General Geology
- GEOL 1133/1131L Environmental Geology
- PHYS 1023H/1021M or 1023/1021L Physics and Human Affairs
- PHYS 2045H(M) or 2054(L) University Physics I
- PHYS 2074H(M) or 2074(L) University Physics II

Mathematics (3–4 hours):
- MATH 2023, Mathematical Thought
- MATH 2043, Survey of Calculus
- MATH 2553, Finite Math
- MATH 2813, Mathematical Reasoning
- MATH 2544H or 2554 Calculus I
- MATH 2564H or 2564 Calculus II
- MATH 2574H or 2574 Calculus III
- MATH 2584H or 2584 Calculus IV

Required General Electives to complete 120 hour Graduation Requirement
- Completion of Senior Honors Thesis fulfills the Fulbright College Writing Requirement.

Major Requirements

World Language to the Intermediate I (2003) level:
- No graduation credit is awarded for a world language course to students continuing the language beyond high school.

Chemistry Core Courses (33 hours minimum):
- CHEM 1213/1211L Chemistry for Majors I
- CHEM 1223/1221L Chemistry for Majors II
- CHEM 1103/1101L University Chemistry I
- CHEM 1123/1121L University Chemistry II
- CHEM 2263/2261L Analytical Chemistry
- CHEM 3703/3702L Organic Chemistry I for Majors OR
- CHEM 3713/3712L Organic Chemistry II for Majors OR
- CHEM 3603/3601 Organic Chemistry I OR
- CHEM 3613/3611L Organic Chemistry II
- CHEM 3453/3451L Elements of Physical Chemistry I OR
- CHEM 3504 Physical Chemistry I OR
- CHEM 3514/3512L Physical Chemistry II OR
- CHEM 4813H Honors Biochemistry I OR
- CHEM 4843H Honors Biochemistry II OR
- CHEM 4812 Intro to Biochemistry OR
- CHEM 4812 Advanced Inorganic Chemistry I OR
- CHEM 4812 Intro to Biochemistry OR
- CHEM 4812 Advanced Inorganic Chemistry I
- CHEM 4853 Biochemical Techniques OR
- CHEM 4873 Experimental Methods in Organic Chemistry OR
- CHEM 4853 Biochemical Techniques

Mathematics (3-4 hours):
- MATH 2554C Calculus I OR
- MATH 2554C Calculus II

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

Biology (11 hours minimum):
- At least 3 hours must be 3000-
- BIOL
- BIOL
- BIOL

Requirements for Departmental Scholar 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 contacting the faculty academic advisor, who will help arrange conferences with potential faculty research project advisors. When there is agreement between the student and the advisor 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 at least 12 honors 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.

1 Honors students who take University Chemistry I (1103/1101L) as a regular course followed by Honors University Chemistry II (CHEM 1123H/1121M/1120E) receive 8 hours of Honors science credit. Honors students who complete Chemistry for Majors will receive Honors credit.

***This form is NOT a substitute for the Catalog of Studies. Students should verify their graduation requirements with their advisor, their degree evaluation, and the Catalog of Studies.