For students admitted Fall 2013 - Summer 2014

Fulbright College Advising Center
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UNIVERSITY OF ARKANSAS

J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

REQUIREMENTS FOR A BACHELOR OF SCIENCE (BS) IN CHEMISTRY (BIOPHYSICAL)

Minimum degree credit hours required to graduate = **120** (University Core + Major + General Electives)

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

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

UNIVERSITY CORE REQUIREMENTS

❑ UNIV 1001: University Perspectives: Destination Graduation (must be completed during freshman year)

ENGLISH (2 courses - 6 hrs)
❑ ENGL 1013 Composition I
❑ ENGL 1023 Composition II

U.S. HISTORY (1 course - 3 hrs)
❑ HIST 2003 History of the American People to 1877
❑ HIST 2013 History of the American People 1877 to Present
❑ PLSC 2003 American National Government

FINE ARTS (1 course - 3 hrs)
❑ ARCH 1003 Architecture Lecture
❑ ARHS 1003 Art Lecture
❑ COMM 1003 Film Lecture
❑ DANC 1003 Movement and Dance
❑ DRAM 1003 Theatre Appreciation
❑ LARC 1003 The American Landscape
❑ MLIT 1003 Music Lecture
❑ MLIT 1013 Music Lecture for Music Majors

SOCIAL SCIENCES (3 courses from at least 2 fields - 9 hrs)
❑ AGEC 1103 Principles of Agricultural Microeconomics
❑ AGEC 2103 Principles of Agricultural Macroeconomics
❑ ANTH 1023 Intro to Cultural Anthropology
❑ COMM 1023 Communication in a Diverse World
❑ ECON 2013 Principles of Macroeconomics
❑ ECON 2023 Principles of Microeconomics
❑ ECON 2143 Basic Economics: Theory and Practice
❑ GEOG 1123 Human Geography
❑ GEOG 2003 World Regional Geography
❑ HESC 1403 Life Span Development
❑ HESC 2413 Family Relations
❑ HIST 1113 Institutions and Ideas of World Civilizations I
❑ HIST 1123 Institutions and Ideas of World Civilizations II
❑ HIST 2003 History of the American People to 1877
❑ HIST 2013 History of the American People 1877 to Present
❑ HUMN 1114H Honors Roots of Culture to 500 C.E.*
❑ HUMN 2114H Honors Birth of Modern Culture, 1600-1900*
❑ PLSC 2003 American National Government
❑ PLSC 2013 Intro to Comparative Politics
❑ PLSC 2203 State and Local Government
❑ PSYC 2003 General Psychology
❑ RESM 2853 Leisure and Society
❑ RSOC 2603 Rural Sociology
❑ SOCI 2013 General Sociology
❑ SOCI 2033 Social Problems

MATHEMATICS (1 course - 3-4 hrs)
❑ MATH 1203 ***or*** MATH 1204 College Algebra, MATH 1313 Quantitative Reasoning, ***or*** any higher level math course, including STAT 2303.

HUMANITIES (1 course - 3 hrs)
❑ World language at Intermediate I (2003) level
❑ ARCH 1013 Diversity and Design
❑ CLST 1003 Intro to Classical Studies: Greece
❑ CLST 1013 Intro to Classical Studies: Rome
❑ COMM 1233 Media, Community, and Citizenship
❑ HUMN 1124H Honors Eq. of Cultures, 500-1600*
❑ HUMN 2003 Intro to Gender Studies
❑ HUMN 2124H Honors 20th Century Global Culture*
❑ PHIL 2003 Intro to Philosophy
❑ PHIL 2103 Intro to Ethics
❑ PHIL 2203 Logic
❑ PHIL 3103 Ethics and the Professions
❑ WLIT 1113 World Literature I
❑ WLIT 1123 World Literature II

NATURAL SCIENCES (2 courses - 8 hrs)
❑ ANTH 1013/1011L Intro to Biological Anthropology
❑ ASTR 2003/2001L Survey of the Universe
❑ **BIOL 1543/1541L Principles of Biology**
❑ BIOL 1603/1601L Principles of Zoology
❑ BIOL 1613/1611L Plant Biology
❑ BIOL 2213/2211L Human Physiology
❑ BIOL 2443/2441L Human Anatomy
❑ CHEM 1053/1051L Chemistry in the Modern World
❑ CHEM 1073/1071L Fundamentals of Chemistry
❑ **CHEM 1103/1101L University Chemistry I**
❑ CHEM 1113 University Chem. for Engineers I
❑ **CHEM 1123/1121L University Chemistry II**
❑ CHEM 1133/1131L University Chem. for Engineers II
❑ **CHEM 1213/1211L Chemistry for Majors I**
❑ **CHEM 1223/1221L Chemistry for Majors II**
❑ ENTO 1023/1021L Insects, Science, and Society
❑ GEOL 1113/1111L General Geology
❑ GEOL 1133/1131L Environmental Geology
❑ PHYS 1023/1021L Physics and Human Affairs
❑ PHYS 1034 Physics for Elementary Ed Majors
❑ PHYS 1044 Physics for Architects I
❑ PHYS 1054 Physics for Architects II
❑ PHYS 2013/2011L College Physics I
❑ PHYS 2033/2031L College Physics II
❑ **PHYS 2054 University Physics I**
❑ **PHYS 2074 University Physics II**

*Honors students only
Bolded courses indicate those that may also be required in the major. Courses listed under University Core Requirements cannot be used more than once within the University Core Requirements section.

MAJOR REQUIREMENTS

MATHEMATICS (2 courses - 8 hrs)
❑ MATH 2554 Calculus I
❑ MATH 2564 Calculus II

PHYSICS (2 courses - 8 hrs)
❑ PHYS 2054 University Physics I
❑ PHYS 2074 University Physics II

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 hrs)
❑ BIOL 1543/1541L Principles of Biology
❑ BIOL 2533/2531L Cell Biology

Select any BIOL lecture course numbered 3000 or higher:

❑ BIOL _____

CHEMISTRY (43 hrs minimum)
❑ CHEM 1213/1211L Chemistry for Majors I
❑ CHEM 1223/1211L Chemistry for Majors II
or
❑ CHEM 1103/1101L University Chemistry I
❑ CHEM 1123/1121L University Chemistry II

❑ CHEM 2263/2261L Analytical Chemistry

❑ CHEM 3603/3601L Organic Chemistry I
❑ CHEM 3613/3611L Organic Chemistry II
or
❑ CHEM 3703/3702L Organic Chemistry I for Majors
❑ CHEM 3713/3712L Organic Chemistry II for Majors

❑ CHEM 3504 Physical Chemistry I
❑ CHEM 3514/3512L Physical Chemistry II

❑ CHEM 4813H Honors Biochemistry I (same as CHEM 5813)
❑ CHEM 4843H Honors Biochemistry II (same as CHEM 5843)
or
❑ CHEM 3813 Introduction to Biochemistry
❑ CHEM 4723 Experimental Methods in Organic and Inorganic Chemistry

❑ CHEM 4213/4211L Instrumental Analysis

❑ CHEM 4853 Biochemical Techniques
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.

❑ The Fulbright College writing requirement for non-honors students will be satisfied with satisfactory completion of the formal research/analytical reports required in Physical Chemistry Laboratory - CHEM 3451L or CHEM 3512L.

❑ Required General Electives (hours vary; discuss with your advisor)

1) No degree credit is awarded for the following: A world language course at the Elementary I (1003) level if the student is continuing with a language taken in high school or did not complete two years of a world language in high school; Remedial courses that begin with a '0' in the course number, e.g. MATH 0003; And any duplicate coursework completed where credit hours are counted more than once. **2)** Students must earn at least 40 degree credit hours in courses numbered 3000 or higher. Included in these 40 hours can be courses numbered 2000 or higher if each course has a specific course designated as a prequisite. These courses may be taken from other colleges or universities. **3)** Students must earn at least 30 degree credit hours numbered 3000 or higher at the University of Arkansas - Fayetteville campus. **4)** Fulbright students must earn at least 30 degree credit hours in courses offered by departments in Fulbright College at the University of Arkansas - Fayetteville campus, with at least 24 degree credit hours numbered 3000 or higher. **5)** A student graduating with a major or minor from Fulbright College must have completed a minimum of 50% of degree credit within the Fulbright College major or minor department through courses completed at the University of Arkansas - Fayetteville campus. Students should review individual departmental requirements to verify if a higher percentage is required by their specific major or minor department. **6)** Students who transfer into the University may not present more than 68 lower-level hours (1000 and 2000 level). **7)** Students will not be allowed to graduate if they have grades of "D" in more than 25 percent of the hours presented for graduation credit.