Catalog year: 2015

Fulbright College Advising Center
518 MAIN
479.575.3307
fulbrightadvising.uark.edu

UNIVERSITY OF ARKANSAS

J. WILLIAM FULBRIGHT COLLEGE OF ARTS AND SCIENCES

COLLEGE SCHOLARS CORE REQUIREMENTS for a BACHELOR OF SCIENCE

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

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

Fulbright College Honors Program
517 MAIN
479.575.2509
fulbrighthonors.uark.edu

NATURAL SCIENCES & MATHEMATICS

(20 hours minimum, including at least one MATH course)
- Honors hours must come from at least two groups
- Minimum honors hours: **16**

Physics & Astronomy

- ❑ ASTR 2003/2001L **or** 2003H/2001M Survey of the Universe
- ❑ PHYS 2054 **or** 2054H University Physics I
- ❑ PHYS 2074 **or** 2074H University Physics II

Biology & Anthropology

- ❑ ANTH 1013/1011L **or** 1013H/1011M Biological Anthropology
- ❑ BIOL 1543/1541L **or** 1543/1541M Principles of Biology
- ❑ BIOL 1603/1601L **or** 1603/1601M Principles of Zoology
- ❑ BIOL 1613/1611L **or** 1613/1611M Plant Biology
- ❑ BIOL 2013/2011L **or** 2013/2011M General Microbiology

Chemistry

- ❑ CHEM 1103/1101L University Chemistry I
- ❑ CHEM 1123/1121L **or** 1123H/1121M University Chemistry II
- ❑ CHEM 1213/1211L Chemistry for Majors I
- ❑ CHEM 1223/1221L Chemistry for Majors II
- ❑ CHEM 3603/3601L **or** CHEM 3603H/3602M Organic Chemistry I
- ❑ CHEM 3613/3611L **or** CHEM 3613H/3612M Organic Chemistry II
- ❑ CHEM 3703/3702L Organic Chemistry for Majors I
- ❑ CHEM 3713/3712L Organic Chemistry for Majors II

Note: *Students who complete University Chemistry I followed by Honors University Chemistry II will receive eight hours of honors science credit. Chemistry for Majors I & II and Organic for Majors I & II also count as honors science credit.*

Geology

- ❑ GEOS 1113/1111L **or** 1113H/1111M General Geology
- ❑ GEOS 1133/1131L Environmental Geology

Mathematics

- ❑ MATH 2554C **or** 2554H Calculus I
- ❑ MATH 2564C **or** 2564H Calculus II
- ❑ MATH 2574C **or** 2574H Calculus III

HUMANITIES & SOCIAL SCIENCES

(5-6 courses • 18 hours)
- Minimum honors hours: **9**

Social Sciences (1 course • 3 hours)

- ❑ ANTH 1023 **or** 1023H Intro to Cultural Anthropology
- ❑ ECON 2013 **or** 2013H Principles of Macroeconomics
- ❑ ECON 2023 **or** 2023H Principles of Microeconomics
- ❑ GEOS 2003 World Regional Geography
- ❑ PSYC 2003 **or** 2003H General Psychology
- ❑ SOCI 2013 **or** 2013H General Sociology

—SELECT ONE OPTION FROM THE TWO BELOW—

OPTION 1 (5 courses • 15 hours)

World Civilization (select both)

- ❑ HIST 1113 **or** 1113H Inst. and Ideas of World Civ. I
- ❑ HIST 1123 **or** 1123H Inst. and Ideas of World Civ. II

Fine Arts (select 1-2 courses)

- ❑ ARCH 1003 **or** 1003H Architecture Lecture
- ❑ ARHS 1003 **or** 1003H Art Lecture
- ❑ COMM 1003 **or** 1003H Film Lecture
- ❑ DANC 1003 **or** 1003H Movement and Dance
- ❑ MLIT 1003 **or** 1003H Music Lecture
- ❑ MLIT 1013 **or** 1013H Music Lecture for Music Majors
- ❑ THTR 1003 **or** 1003H Theatre Appreciation

Humanities (select 1-2 courses)

- ❑ WLIT 1113 **or** 1113H World Literature I
- ❑ WLIT 1123 **or** 1123H World Literature II
- ❑ Any other WLIT **or** a world language literature course
- ❑ CLST 1003 **or** 1003H Intro to Classical Studies: Greece
- ❑ CLST 1013 **or** 1013H Intro to Classical Studies: Rome
- ❑ PHIL 2003 **or** 2003H Intro to Philosophy

OPTION 2 (4 courses • 15 hours)

Honors Humanities Project (H2P)

- ❑ HUMN 1114H Roots of Culture to 500 C.E.
- ❑ HUMN 1124H Equilibrium of Cultures, 500-1600
- ❑ HUMN 2114H Birth of Modern Culture, 1600-1900
- ❑ One course from the Fine Arts section above

COLLOQUIA & OTHER REQUIREMENTS

(hours vary based on exemptions & placement)

- ❑ **UNIV 1001:** University Perspectives (freshmen must complete during first year)

English Composition (2 courses • 6 hours)

- ❑ ENGL 1013 Composition I
- ❑ ENGL 1023 Composition II

U.S. History or Government (1 course • 3 hours)

- ❑ HIST 2003 History of the American People to 1877
- ❑ HIST 2013 History of the American People 1877 to Present
- ❑ PLSC 2003 **or** 2003H American Nat'l Government

World language up to the Intermediate I (2003) level or higher (hours vary)

- ❑ _____ (2003)

Honors Colloquia (3 courses • 9 hours)

- ❑ Humanities **or** HUMN 2124H Honors 20th Century Global Culture
- ❑ Social Science
- ❑ Natural Science **or** Mathematics

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MAJOR REQUIREMENTS for a BACHELOR OF SCIENCE in PHYSICS

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

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

Department of Physics
226 PHYS
479.575.2506
cavern.uark.edu/depts/physics/apps/

CHEMISTRY (2 courses • 8 hours)

- ❑ CHEM 1103/1101L University Chemistry I
- ❑ CHEM 1123/1121L University Chemistry II

or an approved eight hours of laboratory-based courses in CSCE 2004 and CSCE 2014.

MATHEMATICS (5 courses • 19 hours)

- ❑ MATH 2554 Calculus I
- ❑ MATH 2564 Calculus II
- ❑ MATH 2574 Calculus III
- ❑ MATH 2584 Differential Equations and Laplace Transform
- ❑ MATH 3423 Advanced Applied Mathematics

Note: *CSCE 3513, CSCE 4423, GEOS 4223, or MEEG 2703 can be substituted for MATH 3423 with a departmental advisor's approval.*

PHYSICS CORE (7 courses • 23 hours)

- ❑ PHYS 2054 University Physics I
- ❑ PHYS 2074 University Physics II
- ❑ PHYS 2094 University Physics III
- ❑ PHYS 3414 Electromagnetic Theory
- ❑ PHYS 3613 Modern Physics
- ❑ PHYS 4073 Intro to Quantum Mechanics
- ❑ PHYS 4991 Physics Senior Seminar

Note: *Majors must propose participation in a research experience project no later than the end of their junior year of study. A written report of the results must be submitted during PHYS 4991 Senior Seminar.*

PHYSICS ELECTIVES (hours vary)

Students must complete one concentration below to be discussed with their departmental advisor:

- ❑ ASTRONOMY (16 hrs minimum)
- ❑ BIOPHYSICS (16 hrs minimum)
- ❑ COMPUTATIONAL (16 hrs minimum)
- ❑ ELECTRONICS (16 hrs minimum)
- ❑ GEOPHYSICS (24 hrs minimum)
- ❑ OPTICS (16 hrs minimum)
- ❑ PROFESSIONAL (16 hrs minimum)

PHYSICS WRITING REQUIREMENT

- ❑ Satisfied by a senior thesis (PHYS 498V), an honors thesis, or a paper submitted as part of PHYS 4991 or any physics or astronomy course numbered 3000 or higher. Students electing the last route must obtain approval of the instructor during the first three weeks of the semester.