### University Perspectives (1 hour):
- Must be completed during freshman year.
  - HIST 1113H or 1113 World Civilization I
  - HIST 1123H or 1123 World Civilization II

### Freshman Composition (6 hours):
- ENGL 1013 & ENGL 1023
- You may gain exemption from ENGL 1013 and 1023 if you have a 30/680 or above on the English/Verbal section of the ACT/SAT

### U.S. History or American Government (3 hrs):
Select one of the following:
- HIST 2003 U.S. History, to 1877
- HIST 2013 U.S. History, to present
- PLSC 2003 American National Gov’t
- PLSC 2003H American National Gov’t

### World Language (0—9):
- 1003
- 1013
- 2003

Hours depend on placement. Students must demonstrate proficiency in single modern or classical language other than English. No credit is awarded for a world language 1003 course to students continuing the language begun in high school.

### Honors Colloquia:
- Honors hours—one from each approved area
  - Humanities Colloquium
  - Social Science Colloquium
  - Natural Science or Math Colloquium

### Humanities & Social Sciences:
- Core—18 hours, 9-12 hours must be at honors level
- Students complete all social science requirements AND choose option 1 or 2

### Social Sciences (3 hours):
- ANTH 1023H or 1023 Cultural Anthropology
- ECON 2013H or 2013 Microeconomics
- ECON 2023H or 2023 Microeconomics
- GEOG 2003 World Regional Geography
- PSYC 2003H or 2003 General Psychology
- SOCI 2013H or 2013 General Sociology

Honors students who complete Chemistry for Majors I and II will receive Honors credit.

Honors students who take University Chemistry I (1103/1101L) as a regular course followed by Honors University Chemistry II (CHEM 1123H/1121M1120E) receive 8 hours of Honors science credit.

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### Bachelor of Science in Mathematics

#### Requirements

**Catalog Year: 2014**

#### Core Requirements

**Option 1**

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

- **Fine Arts/World Lit./Philosophy (9 hours):**
  - Must be selected from two different areas. At least one must come from 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

- **World Literature:**
  - 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

- **Philosophy:**
  - PHIL 2003H or 2003 Intro to Philosophy

**Option 2**

- **Advising H2P equivalencies**

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<tr>
<td>HUMN 1114H</td>
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<td>WLT 1113H</td>
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<td>HUMN 2114H</td>
<td>HIST 1123H</td>
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**Required**

- Core Fine Arts (to meet state minimum core)
- Core Honors

**Note:** 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. For more information, please visit catalog.uark.edu.

#### Natural Sciences & Mathematics:
- Core—20 hours; 16 hours must at honors level
- Complete sixteen hours from at least two of the five different areas below. At least one class from Area 5 is required, though not necessarily at the Honors level.

**Area 1**

- ASTR 2003H/2001M Survey of Universe
- PHYS 2054H/2054H(M) University Physics I
- PHYS 2074H/2074H University Physics II

**Area 2**

- ANTH 1013H/011M Biological Anthropology
- BIOL 1543/1541M Principles of Biology
- BIOL 1603/1601L Principles of Zoology
- BIOL 1613/1611L Plant Biology
- BIOL 2013/2011L General Microbiology

**Area 3**

- CHEM 1103/1101L University Chemistry I
- CHEM 1213/1211M University Chemistry II
- CHEM 1213/1211L Chemistry I for Majors
- CHEM 1223/1221L Chemistry II for Majors
- CHEM 3603H/3602M Organic Chemistry I
- CHEM 3613H/3612M Organic Chemistry II

**Area 4**

- GEOL 1113H/1111L General Geology
- GEOL 1133/1131L Environmental Geology

**Area 5**

- Mathematics (4 hours):
  - MATH 2554H or 2554 Calculus I
  - MATH 2564H or 2564 Calculus II
  - MATH 2574 or 2574 Calculus III

- **Required General Electives to complete 120 hour Graduation Requirement**

  - Completion of Senior Honors Thesis fulfills the Fulbright College Writing Requirement.

- **Major Requirements**

  **Computer Programming (4 hours):**
  - CSCE 2004 Programming Foundations I
  - CSCE 2004 Programming Foundations II

  **Natural Sciences (8 hours):**
  - Select 2 of the following:
    - ANTH 1013H/011L Intro to Biological Anthropology
    - ASTR 2003H/2001L Survey of the Universe
    - BIOL 1543/1541M Principles of Biology
    - BIOL 1603/1601L Principles of Zoology
    - BIOL 1613/1611L Plant Biology
    - BIOL 2013/2011L Microbiology
    - CHEM 1103/1101L University Chemistry I
    - CHEM 1123/1121L University Chemistry II
    - GEOL 1113H/1111L General Geology
    - GEOL 1133/1131L Environmental Geology
    - PHYS 2054/2054L University Physics I
    - PHYS 2074/2074L University Physics II

  **Mathematics Core (24 hours):**
  - MATH 2574 Calculus III
  - MATH 2584 Differential Equations & Laplace Transform
  - MATH 2701 Survey of Higher Math
  - MATH 2803 Introduction to Mathematical Proof
  - MATH 3003 Abstract Linear Algebra
  - MATH 3113 Intro to Abstract Algebra I
  - MATH 4513 Advanced Calculus I
  - MATH 4933 Mathematics Major Seminar

  **Additional Requirements (Choose one below):**
  - Completion of an additional major or minor other than Mathematics or Statistics
  - Completion of a Math minor
  - Completion of the College Honors core

  **Students must complete one of the following options:**

  **Option 1: Applied (18-19 hours):**
  - STAT 3013 Intro to Probability and Statistics
  - STAT 5103 Intro to Probability Theory
  - MATH 3423 Advanced Applied Mathematics
  - MATH 4533 Numerical Linear Algebra
  - MATH 4633 Numerical Analysis
  - CSCE 3513 Algorithms

  **Select one of the following:**
  - CSCE 4002/4001L Statistical Methods
  - MATH 4443 Complex Variable for Application
  - MATH 4523 Advanced Calculus II

  **Option 2: Pure (18 hours):**
  - MATH 4113 Intro to Abstract Algebra
  - MATH 4443 Complex Variable for Application
  - MATH 4523 Advanced Calculus II
  - Nine hours of electives from mathematics and statistics courses numbered above 3000.

  **Option 3: Statistics (19 hours) to include:**
  - STAT 3013 Intro to Probability and Statistics
  - STAT 5103 Intro to Probability Theory
  - MATH 4533 Numerical Linear Algebra
  - STAT 4003/4001L Statistical Methods
  - STAT 4033 Nonparametric Statistical Methods
  - Six hours of electives from mathematics and statistics courses numbered above 3000

  Strongly recommended electives in this program are STAT 5103 and STAT 5113.

Requirements for Departmental Honors in Mathematics: The Departmental Honors Program in Mathematics is designed for the superior student and is intended to help the student develop a more comprehensive view of the nature of mathematics.

Graduation with honors: The candidate must satisfy the requirements set forth by the Honors Council. The candidate must also obtain at least a 3.50 grade-point average in mathematics courses numbered MATH 2554, MATH 2564, MATH 2574, MATH 3083, MATH 3113, MATH 3404, and MATH 4513, as well as in the additional mathematics courses necessary to complete the requirements for the chosen option. In addition, a grade of “D” or “F” in any other course offered by the department disqualifies a student for honors.

Candidates must take one year of honors mathematics in their senior year. This course will require an acceptable paper and will carry two hours of credit per semester.

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1 Honors students who take University Chemistry I (1103/1101L) as a regular course followed by Honors University Chemistry II (CHEM 1123H/1121M1120E) receive 8 hours of Honors science credit.

2 Honors students who complete Organic Chemistry for Majors will receive Honors credit.

Updated: June 2, 2014