Major Requirements for Biology:

- **Requirements in cognate sciences and mathematics include the following:**
  - CHEM 1103/1101L University Chemistry I/Univ. Chem. I Lab (MATH 1203) and CHEM 1123/1121L University Chemistry II/Univ. Chem. II Lab (CHEM 1103)
  - CHEM 2613/2611L/2610D Organic Physiological Chemistry/ Lab/Drl (CHEM 1123/1121L or CHEM 1074/1071L) OR
  - CHEM 3603/3601L Organic Chemistry I/ Lab (CHEM 1123/1121L) and CHEM 3613/3611L Organic Chemistry II/Lab (CHEM 1123/1121L & CHEM 3603/3601L)
  - PHYS 2013/2011L College Physics I/ Lab (MATH 1203 & 1213 or equivalent) and PHYS 2033/2031L College Physics II/ Lab (PHYS 2013/2011L)
  - MATH 2043 Survey of Calculus (MATH 1203) OR MATH 2544 Calculus I (MATH 1203 & 1213 or 1285)
  - BIOL 1543/1541L Principles of Biology/Principles of Biology Lab (Majors may take an additional 1000-level BIOL course BIOL1603/1601L (Principles of Zoology) OR BIOL 1613/1611L (Plant Biology). Majors may apply a maximum of eight 1000-level credits toward the major.)

- **An additional 24 hours of biological sciences including the following:**
  - BIOL 2001 Bibliographic Practicum: Bibliographic Practicum is required of all majors.
  - One course from four of the following six areas of specialization (I-VI) in addition to fulfilling requirement VII. Students must also select at least one course from each of the three general areas of biology: Group 1: Botany, Group 2: Microbiology, Group 3: Zoology (see advisor or Catalog of Studies for specific courses).

  **I. Microorganism Biology:**
  - BIOL 2533/2531L Cell Biology/ Lab (*lab optional) (Pre: BIOL 1543/1541L; Pre or Co: CHEM 1123/1121L or CHEM 2223/2221L)
  - BIOL 2013/2011L General Microbiology/ Lab (BIOL 1543/1541L and 1 semester of Gen. Chemistry)

  **II. Genetics:**
  - BIOL 2323/2321L General Genetics/ Lab (BIOL 1543/1541L &CHEM 1123/1121L & MATH 1203 or STAT 2023)
  - BIOL 4233 Genomics and Bioinformatics (BIOL 4373)

  **III. Morphology:**
  - BIOL 4104 Taxonomy of Flowering Plants (BIOL 1613/1611L & BIOL 2323 & BIOL 3023) OR BIOL 3123 Prokaryote Biology (BIOL 2533)
  - BIOL 4424 Mycology (BIOL 2323 & BIOL 2533)
  - BIOL 4404 Comparative Vertebrate Morphology (BIOL 1543/1541L or equiv)

  **IV. Physiology:**
  - BIOL 4303 Plant Physiology (BIOL 1613/1611L & 1543/1541L & CHEM 1103 or equiv)
  - BIOL 4513 Molecular Cell Biology (BIOL 2533 & BIOL 2323 & CHEM 3603 and CHEM 3613 and CHEM 3611L)
  - BIOL 2213/2211L Human Physiology/ Lab (CHEM 1023/1021L or MATH 1074/1071L or CHEM 1123/1121L or equivalent & MATH 1203)

  **V. Evolution:**
  - BIOL 3023 Evolutionary Biology (BIOL 1543/1541L and Pre- or Co-requisite BIOL 2323)

  **VI. Ecology:**
  - BIOL 3863/3861L General Ecology/General Ecology Lab (7 Hours of Biological Sciences)

  **VII. Remaining 8-10 credit hours from biology electives of advanced level BIOL classes (3000 level or greater).** See Catalog of Studies or advisor for additional courses.

- **Senior Writing Requirement** (discuss this requirement with your Biology advisor)

For more information on Biology, contact the Department of Biological Sciences: SCEN 601 (479)-575-3251 http://biology.uark.edu

++This form is NOT a substitute for the Catalog of Studies. Students should verify this information with their advisor, their degree audit, and the Catalog of Studies++

Requirements for Departmental Honors in Biology:

The biological sciences honors program is designed to provide students an opportunity to investigate questions in biology through an expanded reading program and research experience. Biological science majors may apply to enter the program between the second semester of the sophomore year and the end of the junior year. Application is made through both Honors Studies (MAIN 517) and the Department of Biological Sciences (SCEN 601). Applicants must have a 3.5 grade-point average. Students should consult with their advisor to identify and contact a potential faculty research mentor. The student’s research activities will then be directed by the departmental faculty member who agrees to sponsor the student.

Students may enroll for up to four hours of credit in BIOL 399V during the junior year and up to eight hours of credit in BIOL 499V during the senior year. A maximum of six of these credits may be applied toward a major. Participants must complete and defend an honors thesis and take 12 hours in Honors Studies, which may include six hours of thesis. The honors thesis is based on an original research project and presented orally before a committee composed of two faculty from the biological sciences, a person from outside the biological sciences, and a representative from the Honors Council. This committee makes a recommendation concerning the award of the honors distinction to the Honors Council. Students who successfully complete the departmental honors program usually graduate as “Departmental Scholar Cum Laude.” Higher degree distinctions are recommended only in exceptional cases and are based upon the candidate’s entire involvement in the honors program. Completion of an honors thesis fulfills the writing requirement in biological sciences, which precludes credit for BIOL 498V (Senior Thesis) for the same body of work.

40-Hour Rule
Students must complete at least 40 hours of work in courses numbered 3000 and above. Included in this 40 hours can be courses numbered 2000 if each has a specific course designated as a prerequisite, with the exception of MILS 2001 and 2011, AERO 2001 and 2011, and foreign language courses numbered 2003 and 2013.

24-Hour Rule
A student graduating from Fulbright College must complete at least 24 hour of work in courses numbered 3000 and above from departments within the Fulbright College of Arts and Sciences.