Biology Core and Major Requirements (Bachelor of Science) – Catalog Years 2008 - 2009

Major Requirements for Biology:
- Requirements in the cognate sciences and mathematics include the following: Course prerequisites in parentheses

  - CHEM 1103/1101L University Chemistry I (MATH 1203) AND
  - CHEM 1123/1121L University Chemistry II (MATH 1203, CHEM1103)
  - CHEM 3603/3601L Organic Chemistry I (CHEM 1123/1121L) AND
  - CHEM 3613/3611L Organic Chemistry II (CHEM 1123/1121L, CHEM 3603/3601L)
  - CHEM 3813 Introduction to Biochemistry (CHEM 3613/3611L or CHEM 3713/3712L or CHEM 2613/2611L)
  - PHYS 2013/2011L College Physics I (MATH 1203, 1213) AND
  - PHYS 2033/2031L College Physics II (PHYS 2013)
  - PHYS 2054/2050L University Physics I (Pre or Co-req: MATH 2554) AND
  - PHYS 2074/2070L University Physics II (PHYS 2054, Pre or Co-req: MATH 2564)
  - MATH 2554 Calculus I (MATH 1203, 1213) or MATH 1285 a

- STAT 2023 Biostatistics (Pre or Co-req: MATH 2554) OR
  - STAT 4003/4001L Statistical Methods (MATH 2554) OR equivalent

- BIO 2533 Cell Biology (BIO 1543/1541L, Pre or Co-req: CHEM 1123/1121L or CHEM 1223/1221L)
- BIO 2323 General Genetics (BIO 1543/1541L, CHEM 1123/1121L, and MATH 2003, STAT 2023 or equiv)
- BIO 3023 Evolutionary Biology (BIO 1543/1541L, BIO 2323 is recommended)
- BIO 3863 General Ecology (7 hours of Biological Sciences)
- BIO 2001 Bibliographic Practicum

- And a minimum of one hour of Core Laboratory selected from:
  - BIOL 2013/2011L Cell Biology Lab OR
  - BIOL 2321L General Genetics Lab OR
  - BIOL 3861L General Ecology Laboratory

- At least 26 hours of electives in Biology and/or Biology related electives that must include:
  - For a list of courses for parts a - c, click here

  - Biology Core – 14 hrs
    - BIO 2533 Cell Biology (BIO 1543/1541L, Pre or Co-req: CHEM 1123/1121L or CHEM 1223/1221L)
    - BIO 2323 General Genetics (BIO 1543/1541L, CHEM 1123/1121L, and MATH 2003, STAT 2023 or equiv)
    - BIO 3023 Evolutionary Biology (BIO 1543/1541L, BIO 2323 is recommended)
    - BIO 3863 General Ecology (7 hours of Biological Sciences)
    - BIO 2001 Bibliographic Practicum

  - At least 26 hours of electives in Biology and/or Biology related electives that must include:
      - For a list of courses for parts a - c, click here

  - Note: BIO 2013/2011L count as elective credits only. BIOLBS students should take BIO 3123

    a. No more than 8 hours of courses at the 1000 level. This includes Principles of Biology (BIO1543/1541L).
    - Students should consult with advisor to determine placement if you have AP or transfer credit in Biology.
      - BIOL ________ BIOL _______L BIOL ________ BIOL _______L
    b. At least two laboratory courses numbered 2000 or higher. This includes core labs taken in addition to the basic core requirement.
      - This requirement can also include 3000-4000 level lab courses
      - BIOL ________ BIOL _______L BIOL ________ BIOL _______L
    c. At least 18 hours in BIO or Biology related courses (see Note below) numbered 3000 or higher, to include at least 12 hours from courses numbered 4000 or higher.
      - BIOL ________ BIOL _______L BIOL ________ BIOL _______L
      - BIOL ________ BIOL _______L BIOL ________ BIOL _______L
      - BIOL ________ BIOL _______L BIOL ________ BIOL _______L

  - Note: Biology-related electives that are not taught by the department of Biological Sciences must be approved by the department using the “Exception Request for Major or Minor Requirements” prior to taking the course.

For more information on Biology degree programs, contact the Department of Biological Sciences:
SCEN 601 (479)-575-3251 http://biology.uark.edu/bisc.html Premedical program info: www.uark.edu/premed

*** 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. ***

1See Graduation Checksheet at http://fcac.uark.edu/degreeplanning/checksheets.php for more information on degree requirements.