

Biology Core and Major Requirements (Bachelor of Science) – Catalog Year 2009 - 2010

Hrs	Course Requirements	Hrs	Course Requirements	Hrs	Course Requirements
6	Freshmen Composition: <input type="checkbox"/> ENGL 1013 and <input type="checkbox"/> ENGL 1023	3	U.S. History/American Government: <input type="checkbox"/> HIST 2003 or <input type="checkbox"/> HIST 2013 or <input type="checkbox"/> PLSC 2003	9	Fine Arts/World Literature/Philosophy: <i>To be selected from at least two areas</i> Fine Arts: <input type="checkbox"/> ARCH 1003 or <input type="checkbox"/> LARC 1003 <input type="checkbox"/> ARHS 1003 or <input type="checkbox"/> ARTS 1003 <input type="checkbox"/> COMM 1003 <input type="checkbox"/> DANC 1003 <input type="checkbox"/> DRAM 1003 <input type="checkbox"/> HUMN 1003 <input type="checkbox"/> MLIT 1003 World Literature: <input type="checkbox"/> WLIT 1113 <input type="checkbox"/> WLIT 1123 (<i>WLIT 1113</i>), a foreign language literature course, any other WLIT course. Philosophy: <input type="checkbox"/> PHIL 2003 <input type="checkbox"/> PHIL 2103 <input type="checkbox"/> PHIL 2203
0-3	Advanced Composition: <input type="checkbox"/> ENGL 2003 or <input type="checkbox"/> ENGL 2013 <i>Exemption may be granted by:</i> 1) grade of at least "B" in ENGL 1013 and "A" in ENGL 1023 taken at the U of A, or 2) passing Advanced Comp exemption exam	3	Social Science: <input type="checkbox"/> ANTH 1023 <input type="checkbox"/> ECON 2013 (<i>Math 1203</i>) or <input type="checkbox"/> ECON 2143 <input type="checkbox"/> GEOG 2003 <input type="checkbox"/> PSYC 2003 <input type="checkbox"/> SOCI 2013 or <input type="checkbox"/> SOCI 2033		
0-9	Foreign Language: <input type="checkbox"/> Completion of the Intermediate I level (2003) in a single language. ** See advisor for placement **	18	Science and Mathematics: To be determined by the department of major and to be selected from at least two departments other than the department of the major.		
6	Western or World Civilization: <input type="checkbox"/> HIST 1003 or HIST 1113 <input type="checkbox"/> HIST 1013 or HIST 1123				

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^p*) **AND**
- CHEM 1123/1121L University Chemistry II (*MATH 1203, CHEM 1103^p*)

- CHEM 3603/3601L Organic Chemistry I (*CHEM 1123/1121L^f*) **AND**
- CHEM 3613/3611L Organic Chemistry II (*CHEM 1123/1121L & CHEM 3603/3601L^f*)
- 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*)
OR
- 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
NOTE: (*Calculus II MATH 2564 is highly recommended*)

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

- ^a or placement into a higher level MATH class based on a Math placement test or ACT/SAT scores.
- ^b Substituting University Chemistry I and II for chemistry majors (CHEM 1213/1121L and CHEM 1223/1221L) is acceptable.
- ^c Substituting Organic Chemistry I and II for chemistry majors (CHEM 3703/3702L and CHEM 3713/3712L) is acceptable.

Forty hours in Biology including:

❖ Biology Core – 14 hrs

- BIOL 2533 Cell Biology (*BIOL 1543/1541L, Pre or Co-req: CHEM 1123/1121L or CHEM 1223/1221L*)
- BIOL 2323 General Genetics (*BIOL 1543/1541L, CHEM 1123/1121L, MATH 1203 or STAT 2023 (or equiv)*)
- BIOL 3023 Evolutionary Biology (*BIOL 1543/1541L, Pre or Co-req: BIOL 2323*)
- BIOL 3863 General Ecology (*7 hours of Biological Sciences*)
- BIOL 2001 Bibliographic Practicum

And a minimum of one hour of Core Laboratory selected from:

- BIOL 2531L 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](#). Note: BIOL 2013/2011L count as elective credits only. BIOLBS students should take BIOL 3123**

- a. No more than 8 hours of courses at the 1000 level. This includes Principles of Biology (BIOL 1543/1541L). 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 BIOL 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.
- d. Senior Writing Requirement _____ (See Catalog of Studies)

Electives		

Progress Check (Graduation Credit Hours Only) [†]												
Sem	Hrs	Sem	Hrs	Rule	Cum Hrs	Cum Hrs	Cum Hrs	Cum Hrs	Cum Hrs	Cum Hrs		
Sem 1		Sem 9		8 hr								
Sem 2		Sem 10		24 hr								
Sem 3		Sem 11		(24 cont)								
Sem 4		Sem 12		40 hr								
Sem 5		Sem 13		(40 cont)								
Sem 6		Sem 14		(40 cont)								
Sem 7		Sem 15		68 hr								
Sem 8		Sem 16		124 minimum hrs required for graduation								

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

[†] See Graduation Checksheet at <http://fcac.uark.edu/degreeplanning/checksheets.php> for more information on degree requirements.