

Biology Core and Major Requirements (Bachelor of Science)

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 LARC 1003 <input type="checkbox"/> ARHS 1003 or 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 ECON 2143 <input type="checkbox"/> GEOG 2013 or GEOG 2203 <input type="checkbox"/> PSYC 2003 <input type="checkbox"/> SOCI 2013 or 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 Civilization: <input type="checkbox"/> WCIV 1003 and <input type="checkbox"/> WCIV 1013				

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*)^a
- CHEM 1123/1121L University Chemistry II (*MATH 1203, CHEM 1103*)^b
- CHEM 3603/3601L Organic Chemistry I (*CHEM 1123/1121L*)^c
- CHEM 3613/3611L Organic Chemistry II (*CHEM 1123/1121L & CHEM 3603/3601L*)^c
- 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
(*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 hours**

- 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, and [MATH 1203, STAT 2023 or equiv]*)
- BIOL 3023 Evolutionary Biology (*BIOL 1543/1541L, BIOL 2323 is recommended*)
- 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 Laboratory OR
- BIOL 2321L General Genetics Laboratory OR
- BIOL 3861L General Ecology Laboratory

