

This four year guide is a recommended semester-by semester plan of study for this major. All four year guides are meant as examples of how a degree can be completed in four years. Individual plans will be developed for each student in consultation with the academic advisor. Prior credit, course availability, and student needs must be considered in developing the individual plan. Shaded areas of plan require special attention.

Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study
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**Semester One: [16 Credit Hours]**

MAT 1025	4	C-		If needed as prerequisite to MAT 1110; Otherwise take MAT 1110 here. Can take fall or spring first year
UCO 1200	3			First Year Seminar (may take fall or spring first year)
CHE 1101 & 1110	4		X	Counts towards <b>Gen Ed Science Inquiry</b> as well ( <i>PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1110 and corequisite MAT 1020 or higher if math prerequisite not met. </i> )
BIO 1801	4	C	X	
Gen Ed Wellness Literacy	1			

**Semester Two: [16 Credit Hours]**

RC 1000	3			May take fall or spring of first year
CHE 1102 & 1120	4		X	Counts towards <b>Gen Ed Science Inquiry</b> as well ( <i>PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1120 and corequisite MAT 1020 or higher if math prerequisite is not met.</i> )
BIO 1802	4		X	( <i>PRE: BIO 1801 with a grade of "C" (2.0) or higher or permission of the Department of Biology.</i> )
MAT 1110	4		X	If taken in Semester One, take Liberal Studies Experience course here; Counts as Gen Ed <b>Quantitative Literacy</b>
Gen Ed Wellness Literacy	1			

**Semester Three: [17 Credit Hours]**

BIO 2300	1		X	May take fall or spring of sophomore year
BIO 2400 or 2700	3		X	May take fall or spring of sophomore year ( <i>PRE: 1801, CHE 1102, and MAT 1020 or higher. BIO 1802 required for Biology majors.</i> )
CHE 2101 & 2102	4		X	
STT 2810	3		X	
RC 2001	3			May take in fall or spring of sophomore year
Integrative Learning Experience (ILE) Course 1	3			HS or LS or FA or SS Designation OR take "Required Cell/Genetics Laboratory Course" found in semester five

**Semester Four: [16-18 Credit Hours]**

BIO 2012	3		X	May take fall or spring of sophomore year
BIO 3302	4		X	
Biodiversity Elective	3-4		X	Course to be chosen from the <b>Biodiversity</b> area on POS; Need a total of 12 semester hours in <b>Integrative Biology Concentration</b> with at least two lab component courses
Biological Systems & Mechanisms Elective	3-4		X	Course to be chosen from the <b>Biological Systems and Mechanisms</b> area on POS; Need a total of 12 semester hours in <b>Integrative Biology Concentration</b> with at least two lab component courses
Liberal Studies Experience (LSE) Course 1	3			HS or LS or FA or SS Designation

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**Semester Five: [15 Credit Hours]**

Required Physiology or Zoology Course	4		X	Choose one course from BIO 3301, 3314 or 4555
BIO 2600	3		X	
Required Cell/Genetics Laboratory Course	1		X	Choose one course from <b>Required Cell/Genetics Laboratory</b> area on POS; (BIO 2410 or 2610) OR take ILE course if lab was taken in semester three
PHY 1123 and 1113	4		X	
ILE Course 2	3			HS or LS or FA or SS Designation

Students may complete a Capstone course during any term (Fall, Spring or Summer) after earning 90 hours total hours. Please discuss Capstone options, including potential internships, with your departmental advisor early to allow time for any necessary changes to your four year guide.

**Semester Six: [13-15 Credit Hours]**

BIO 3800	4		X	<b>[WID]</b> ; May be taken fall or spring of junior year
Biological Applications to Society Elective	3-4		X	Course to be chosen from the <b>Biological Applications to Society</b> area on POS; Need a total of 12 semester hours in <b>Integrative Biology Concentration</b> with at least two lab component courses
Integrative Biology Elective	3-4		X	Course to be chosen from the <b>Additional Integrative Biology Elective(s)</b> area on POS; Need a total of 12 semester hours in <b>Integrative Biology Concentration</b> with at least two lab component courses; If 12 semester hours have been completed in concentration area, take free elective here
LSE Course 2	3			HS or LS or FA or SS Designation

**Semester Seven: [15-17 Credit Hours]**

CAPSTONE Course	3		X	<b>CAPSTONE</b> ; Choose one from <b>Capstone</b> area on POS; Can be taken summer, fall, or spring
Integrative Focus Area Course 1	3-4		X	12 semester hours of <b>Integrative Focus Area</b> courses are required and must be identified in consultation with departmental advisor
Integrative Focus Area Course 2	3-4		X	12 semester hours of <b>Integrative Focus Area</b> courses are required and must be identified in consultation with departmental advisor
ILE Course 3	3			
LSE Course 3	3			

**Semester Eight: [6-12 Credit Hours]**

Integrative Focus Area Course 3	3-4		X	12 semester hours of <b>Integrative Focus Area</b> courses are required and must be identified in consultation with departmental advisor
Integrative Focus Area Course 4	3-4		X	12 semester hours of <b>Integrative Focus Area</b> courses are required and must be identified in consultation with departmental advisor; If 12 semester hours have been completed in Integrative Focus Area, take free elective here
LSE Course 4	3			If not taken in a previous term.



Free Elective	0-3*		*Take enough Free Electives to reach a total of 120 hours required for the degree
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General Requirements Summary				
Minimum Total Hours	Gen Ed. Hours	Writing	Minimum	
			Major GPA	Overall GPA
120	44	RC 1000 and RC 2001	2.0	2.0

**All BIO courses and all courses used in Major Requirements section of Program of Study are counted in the major GPA.**

General Education Program Model - 44 Semester Hours Total		
Program Categories	Hours	Important Notes – <i>Be sure to check for Gen Ed courses required in your major</i>
First Year Seminar	3	Can be taken first or second semester of freshman year
Wellness Literacy	2	
Quantitative Literacy	4	
First Year Writing	3	Can be taken first or second semester of freshman year
Sophomore Writing	3	
Integrative Learning Experience	9	Must choose a minimum of two disciplines
Liberal Studies Experience	12	Must choose a minimum of three disciplines
Science Inquiry	8	

You must also meet the Fine Arts, Literary Studies, Historical Studies, and the Social Science Designations. Those may be met within the Integrative Learning Experience and the Liberal Studies Experience.

**Additional Notes:**

- Please consult with your advisor to ensure you will complete the appropriate number of free electives as needed to reach the 120 total hours required for your degree.
- BIO 3500 and BIO 4900 may count in the major concentration elective section that is most relevant to the focus of the research/internship. Please contact your department chair/assistant chairperson to seek approval.
- Residency Requirements:
  - 30 hours must be from ASU
  - 18 hours in the major must be from ASU
  - 9 hours in the minor must be from ASU