



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.

	Credit	Min.	Included	Important Notes
Course Subject and Title	Credit	Grade	in Maior	important Notes
Course subject and Title	Hours		- , -	POS = Program of Study
	Hours	Required	GPA	103 - 110grain of Study

		Seme	ster 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		Х	Counts towards Gen Ed Science Inquiry as well (PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1110 and corequisite MAT 1020 or higher if math prerequisite not met.)
BIO 1801	4	С	Х	
Gen Ed Wellness Literacy	1			
		Seme	ster Two	: [16 Credit Hours]
RC 1000	3			May take fall or spring of first year
CHE 1102 & 1120	4		Х	Counts towards Gen Ed Science Inquiry as well (PRE: MAT 1020 or equivalent test score. PRE or CO: CHE 1120 and corequisite MAT 1020 or higher if math prerequisite is not met.)
BIO 1802	4		Х	(PRE: BIO 1801 with a grade of "C" (2.0) or higher or permission of the Department of Biology.)
MAT 1110	4		Х	If taken in Semester One, take free elective here; Counts as Gen Ed <b>Quantitative Literacy</b>
Gen Ed Wellness Literacy	1			
		Semes	ster Three	e: [17 Credit Hours]
BIO 2300	1		Х	May take fall or spring of sophomore year
BIO 2400 or 2700	3		Х	May take fall or spring of sophomore year (PRE: 1801, CHE 1102, and MAT 1020 or higher. BIO 1802 required for Biology majors.)
CHE 2201 & 2203	4	C-	Х	(PRE: CHE 1102 and CHE 1120. Pre or Corequisite: CHE 2203)
STT 2810	3		Х	
RC 2001	3			May take in fall or spring of sophomore year
Integrative Learning Experience (ILE) Course 1	3			
		Seme	ster Four	: [14 Credit Hours]
BIO 2012	3		Х	May take fall or spring of sophomore year
BIO 2600	3		Х	
Required Cell/Genetics	1		Х	Choose one course from Required Cell/Genetics Laboratory
Laboratory Course				area on POS; (BIO 2410 or 2610)
CHE 2202 & 2204	4	C-	Х	Minimum grade of C- is required for CHE 2202 as a prerequisite to CHE 4580 to be taken next semester
Liberal Studies Experience Course 1	3			HS or LS or FA or SS Designation
		Semest	ter Five: [	17-18 Credit Hours]
BIO 3800	4		Х	[WID]; May be taken fall or spring of junior year
Required Anatomy & Physiology Course	4		х	Choose one course from <b>Required Anatomy &amp; Physiology</b> area on POS; May be taken spring of sophomore year or fall of junior year



BS, Biology, Cell/Molecular BS\_142B College of Arts & Sciences Department of Biology 2024-2025

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Included

Min.

Course Subject and Title	Credit Hours	Min. Grade Required	Included in Major GPA	Important Notes POS = Program of Study	
Evolution/Ecology or Biodiversity Electives	3-4		Х	Choose one course; Need a total of 15 hours from overall <b>Biolo Electives in the Areas</b> section on POS	
PHY 1123 and 1113	4		Х		
ILE Course 2	3			HS or LS or FA or SS Designation	
Students may complete a Capstor	ne course	during an	y term (Fa	II, Spring or Summer) after earning 90 hours total hours. Please	
discuss Capstone options, includir	g potenti			your departmental advisor early to allow time for any necessary	
				r four year guide.	
		Semes	ter Six: [1]	7-18 Credit Hours]	
BIO 3800	4		Х	[WID]; May be taken fall or spring of junior year	
Cellular/Subcellular or Anatomy & Physiology Electives Course 1	3-4		х	Need 11-12 hours from the list of Cell/Subcellular or A&P Electives area on POS; Need a total of 15 hours from overall Biology Electives in the Areas section on POS	
CHE 4580	3		Х		
PHY 1124 and 1114	4		Х		
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation	
		Semes	ter Seven:	[15 Credit Hours]	
CAPSTONE Course	3		Х	<b>CAPSTONE;</b> Choose one from <b>Capstone</b> area on POS; Can be taken summer, fall, or spring	
Cellular/Subcellular or Anatomy & Physiology Electives Course 1	3-4		х	Need 11-12 hours from the list of Cell/Subcellular or A&P Electives area on POS; Need a total of 15 hours from overall Biology Electives in the Areas section on POS	
ILE Course 3	3				
Liberal Studies Experience Course 3	3			HS or LS or FA or SS Designation	
Free Elective	2-3			You only need 15 hours this semester, so you can adjust this elective to meet only 15 hours	
		Semes	ter Eight: [	9-11 Credit Hours]	
Cellular/Subcellular or Anatomy & Physiology Electives Course 1	3-4		х	Need 11-12 hours from the list of Cell/Subcellular or A&P Electives area on POS; Need a total of 15 hours from overall Biology Electives in the Areas section on POS	
Cellular/Subcellular or Anatomy & Physiology Electives Course 1	3-4		х	Need 11-12 hours from the list of Cell/Subcellular or A&P Electives area on POS; Need a total of 15 hours from overall Biology Electives in the Areas section on POS; OR if not needed for this section, take free elective	
Liberal Studies Experience Course 4	3			HS or LS or FA or SS Designation	
Free Elective	0-2*			*Take enough Free Electives to reach a total of 120 hours required for the degree	

General Requirements Summary				
Minimum Gen Ed.	NAV 511	Minimum		
Total Hours	Hours	Writing	Major GPA	Overall GPA



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120	44	RC 1000 and RC 2001	2.0	2.0

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## 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 – Be sure to check for Gen Ed courses required in your major	
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:**

- A minor in Chemistry may be completed by adding CHE 4581.
- 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.
- Residency Requirements:
  - o 30 hours must be from ASU
  - o 18 hours in the major must be from ASU
  - o 9 hours in the minor must be from ASU