

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]

UCO 1200	3			May take in fall or spring semester first year
Integrative Learning Experience (ILE) Course 1	3			
CHE 1101 & 1110	4		X	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	C	X	Very important to take this course during first semester
Gen Ed Wellness Literacy	2			Take two PE Activity courses or one 2-hour course from POS

***MAT 1025 (with a minimum grade of C-) is listed as a prerequisite for MAT 1110 in semester two. Students are encouraged to consider this course during semester one if needed. Please speak with your advisor to discuss schedule options.

Semester Two: [18 Credit Hours]

RC 1000	3			May take in fall or spring semester first year
CHE 1102 & 1120	4		X	Counts towards Gen Ed Science Inquiry . (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		X	(PRE: BIO 1801 with a grade of "C" (2.0) or higher or permission of the Department of Biology.)
MAT 1110	4		X	Counts towards Gen Ed Quantitative Literacy as well. (PRE: MAT 1025 with C- or passing calculus readiness test)
Foreign Language 1040 (or CSD 3372)	3			1020 or 1030 is prerequisite; If test out of this level, take appropriate level or Free Elective if language is complete (FL 1060 may be an option for some languages)

Semester Three: [17 Credit Hours]

BIO 2300	1		X	May take fall or spring of sophomore year
RC 2001	3			May take fall or spring of sophomore year
BIO 2400 or 2700	3		X	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 OR CHE 2101/2102	4		X	(Grade of C- or better required in CHE 2201/2203 to take CHE 2202 & 2204, if desired)
STT 2810	3		X	
Foreign Language 1050 (or CSD 3374)	3			Counts as Liberal Studies Experience Course 1 ; if language complete, take Free Elective

Semester Four: [12-13 Credit Hours]

BIO 2012	3		X	May take fall or spring of sophomore year
Cellular/Subcellular course	3-4		X	Choose from courses in Cellular/Subcellular area on POS. (The total in Additional Required Biology Courses area must be 17 hours. One course MUST be a [WID] course.)
Minor Course 1	3			
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation

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Semester Five: [16-17 Credit Hours]

Evolution or Ecology course	3-4		X	Choose from courses in Evolution or Ecology area on POS. <i>(The total in Additional Required Biology Courses area must be 17 hours. One course MUST be a [WID] course.)</i>
Physics or Geography Course	4		X	4 hours minimum is required
Minor Course 2	3			
Minor Course 3	3			
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: [12-13 Credit Hours]

Anatomy & Physiology Course	3-4		X	Choose from courses in Anatomy & Physiology area on POS. <i>(The total in Additional Required Biology Courses area must be 17 hours. One course MUST be a [WID] course.)</i>
Minor Course 4	3			
Minor Course 5	3			
Liberal Studies Experience Course 3	3			HS or LS or FA or SS Designation

Semester Seven: [15-17 Credit Hours]

BIO 4501 or 4519 or 4700 or 4910	3		X	CAPSTONE; Honors students may take BIO 4519; May take in summer, fall, or spring semester of last year
Biodiversity Course	3-4		X	Choose from courses in Biodiversity area on POS. <i>(The total in Additional Required Biology Courses area must be 17 hours. One course MUST be a [WID] course.)</i>
Additional Course from Additional Required Biology Courses area	3-4		X	Total in the overall Additional Required Biology Courses area MUST be 17 hours and one course must be a [WID] .
ILE Course 3	3			
Liberal Studies Experience Course 4	3			HS or LS or FA or SS Designation

Semester Eight: [9-14 Credit Hours]

Additional Course from Additional Required Biology Courses area	3		X	Total in the overall Additional Required Biology Courses area MUST be 17 hours and one course must be a [WID] . If this course is not needed for this area, then take Free Elective.
Physics or Geography Course 2	3-4		X	If needed to reach 4 hour minimum in Physics and Geography; otherwise free elective
Minor Course 6	3			If needed for 18 hour minor; otherwise free elective
Minor Course 7	3*			If needed for 21 hour minor, otherwise free elective if needed to reach 120 hours required for the degree
Free Elective	0-2*			*Take enough Free Electives to reach the minimum 120 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 in Major Requirements area on the Program of Study are counted in the major GPA.

***Some minors require a 2.0 GPA. See Programs of Study for information.**

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:

- Minor outside Biology required for this degree.
- Foreign language requirement:
 - Student must take the Foreign Language Placement Test to determine starting course for the foreign language sequence.
 - If Foreign Language 1010 & 1020 taken for prerequisite purposes, they will count in place of 6 hours of Free Electives (3 hours per course).
 - FL 1030 may substitute for FL 1010 & 1020 for some languages; FL 1060 may substitute for FL 1040 & 1050 for some languages.
 - Foreign language classes can be taken in summer semesters.
- Students are required to demonstrate intermediate-level proficiency in a language other than English. Intermediate-level proficiency is demonstrated by successful completion of a 4th-semester language course (FL 1050 or 1060 or CSD 3374). A



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higher-level language course that requires one of these courses as a prerequisite may also be used to fulfill the requirement.

- Placement exams are required for several languages. Should a student place higher than the beginning level, any lower level requirements listed on the four year guide will need to be replaced with a free elective if needed for total hours for the degree. Please consult with your advisor for more information.
- **Note: Appalachian's language placement test is designed for placement purposes only, and a score on this test alone is not sufficient to demonstrate intermediate-level proficiency.**
- Residency Requirements:
 - 30 hours overall must be from Appalachian State University
 - 18 hours in the major must be from Appalachian State University
 - 9 hours in the minor must be from Appalachian State University