

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	Include in Major GPA	Important Notes POS = Program of Study
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**Semester One: [14 Credit Hours]**

GES 1010	3		X	
GES 1101	4		X	
UCO 1200	3			Take fall or spring of year 1; swap with BIO 1801 or CHE 1101/1110
RC 1000	3			Take fall or spring of year 1; swap with BIO 1801 or CHE 1101/1110
Gen Ed Wellness Literacy Course	1			

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

GES 2250	4	C-	X	
BIO 1801	4	C	X	
CHE 1101 & 1110	4		X	Also meets <b>Gen Ed Science Inquiry</b> requirement ( <i>Pre: MAT 1020 or equivalent test score</i> )
Liberal Studies Experience Course 1	3			HS or LS or FA or SS Designation

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

GES 2750	3		X	<b>[WID]</b> - May swap this course and GES 2752 with BIO 1802; <i>Prerequisite: GES 2250 with minimum C-</i>
GES 2752	1		X	<i>Prerequisite: GES 2250 with minimum C-</i>
CHE 1102 & 1120	4		X	Also meets <b>Gen Ed Science Inquiry</b> requirement ( <i>Pre: MAT 1020 or equivalent test score</i> )
MAT 1110	4	C-	X	Also meets <b>Gen Ed Quantitative Literacy</b> requirement
RC 2001	3			To be taken as a co-requisite with GES 2750

**Semester Four: [15-16 Credit Hours]**

BIO 1802	4		X	May swap with GES 2750 and GES 2752
PHY 1123 & 1113 or PHY 1170 & 1160	4-5		X	
Geospatial data analysis Course 1	3		X	Choose from <b>Geospatial data analysis</b> area on POS; total of 6 hours required; recommend GHY 2812
Integrative Learning Experience 1	3			HS or LS or FA or SS Designation
Gen Ed Wellness Literacy Course	1			

**Semester Five: [15-16 Credit Hours]**

GES 3310 or CHE 3310	3		X	Offered fall semester only - may replace with Natural Resources Elective Course and take CHE 4620 in spring instead
Natural Resources Electives Course 1	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 12 hours within GES required; recommend a GES course with a lab
STT 2820	3		X	
Computational and Multivariate data analysis Course 1	3		X	Choose from <b>Computational and Multivariate data analysis</b> area on POS; total of 6 hours (2 courses) required; recommend GES 3455 or CS 2435
Liberal Studies Experience Course 2	3			HS or LS or FA or SS Designation

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

Natural Resources Electives Course 2	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 12 hours within GES required; recommend a GES course with a lab
Natural Resources Electives Course 3	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 12 hours within GES required; recommend a GES course with a lab
Geospatial data analysis Course 2	3		X	Choose from <b>Geospatial data analysis</b> area on POS; recommend GES 3140, or if interested in GIS cert, GHY 3310, or GHY 3812
Computational and Multivariate data analysis Course 2	3		X	Choose from <b>Computational and Multivariate data analysis</b> area on POS; total of 6 hours ( 2 courses) required; recommend GES 4025 or CS 2435
Liberal Studies Experience Course 3	3			HS or LS or FA or SS Designation

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

Natural Resources Electives Course 4	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 15 hours from lab courses required; 12 hours within GES required; recommend a GES course with a lab
Natural Resources Electives Course 5	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 15 hours from lab courses required; 12 hours within GES required; recommend a GES course with a lab
Integrative Learning Experience 2	3			
Computational and Multivariate data analysis Course 2	3		X	Choose from <b>Computational and Multivariate data analysis</b> area on POS; total of 6 hours required
Liberal Studies Experience Course 4	3			

**Semester Eight: [13-14 Credit Hours]**

GES 4105	1		X	<b>CAPSTONE</b> ; GES 4510 is an option for honors students
Natural Resources Electives Course 6	3-4		X	Choose from <b>Natural Resources Electives</b> area on POS; total of 21 hours from 3 areas required; 15 hours from lab courses required; 12 hours within GES required; recommend a GES course with a lab
Integrative Learning Experience 3	3		X	
Free electives	6			*Take enough Free Electives to earn the 120 hours required for the degree



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General Requirements Summary				
Minimum Total Hours	Gen Ed. Hours	Writing	Major GPA	Minimum Overall GPA
120	44	RC 1000 and RC 2001	2.0	2.0

**All courses in GES and all courses in Major Requirements area on POS count in 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	Can be taken first or second semester of second year
Perspectives:	29	
Aesthetic	6 or 9	
Historical & Social	6 or 9	
Local to Global	6 or 9	
Science Inquiry	8	

**Additional Notes:**

- Study Abroad: Please see program director
- Summer courses: Please refer to the appropriate departmental policy for courses
- 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.

**THIS 4 YEAR PLAN IS AN EXAMPLE AND SHOULD BE MODIFIED DURING STUDENT ADVISING. PLEASE SEE EARTH.APPSTATE.EDU FOR OTHER EXAMPLE 4-YEAR PLANS.**

- 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