

Working with
Nature
for Society's
Well-Being

College of Forestry, Wildlife & Environment

2023 - 2024 · GEOSPATIAL & ENVIRONMENTAL INFORMATICS CURRICULUM (GSEI)

FRESHMAN

FALL

ENGL	1100	English Composition I	3
GEOG	1010	Global Geography	3
GSEI	1200	Introduction to Geospatial Technology (M)	3
ELEC	FREE	Free Elective	3
CORE		Restricted Science Elective I ¹	4

TOTAL SEMESTER HOURS 16

SPRING

ENGL	1120	English Composition II	3
MATH	1610	Calculus I	4
CORE		History ² or Social Science	3
CORE		Restricted Science Elective II ¹	4

TOTAL SEMESTER HOURS 14

SOPHOMORE

FALL

STAT	2510	Statistics for Biological & Health Sciences	3
ELEC	FREE	Free Elective	3
CORE		Restricted Social Science Elective ³	3
CORE		History ²	3
CORE		Literature ²	3

TOTAL SEMESTER HOURS 15

SPRING

GSEI	2070	Intro to Environmental Informatics (M)	3
GEOG	1030	Global Systems Land/Water	4
NATR	2020	Natural Resource Field Methods	3
ELEC	FREE	Free Elective	2
CORE		Literature ² or Humanities	3

TOTAL SEMESTER HOURS 15

JUNIOR

FALL

FORY	5470	GIS Applications in Natural Resources (M)	2
GEOG	5820	Aerial Photography & Remote Sensing (M)	4
ENGL	3040	Technical Writing	3
COMM	1000	Public Speaking	3
ELEC		Restricted Applications Elective ⁴ (M)	3

TOTAL SEMESTER HOURS 15

SPRING

FORY	5480	GIS Database Design & Analysis (M)	2
FORY	4230	Forest Ecology	3
NATR	4240	Watershed Management (M)	3
WILD	5750	Analysis for Env. & Health Sciences (M)	4
CORE		Fine Arts	3

TOTAL SEMESTER HOURS 15

SENIOR

FALL

GEOG	5880	Advanced GIS (M)	3
GSEI	5360	Environmental Modeling (M)	3
GSEI	5430	Applications in Environ. Informatics (M)	3
GEOG	5890	GIS Programming ⁵	3
STAT	4000	Introduction to Data Science	3

TOTAL SEMESTER HOURS 15

SPRING

FOWS	5270	Natural Resource Policy	3
GSEI	5150	Spatial Statistics in Natural Resources (M)	3
ELEC	FREE	Free Elective	3
ELEC		Restricted Applications Elective ⁴ (M)	3
ELEC		Restricted Applications Elective ⁴ (M)	3

TOTAL SEMESTER HOURS 15

Courses listed with (M) are major courses and must be completed with a cumulative GPA of 2.0 or better.

¹ Student must complete an 8-credit sequence with labs in Biology (BIOL 1020/1021/1030/1031), Physics (PHYS 1500/1510), or Chemistry (CHEM 1030/1031/1040/1041).

² Student must complete a two-semester sequence in either History or Literature.

³ Student must take one of the following courses: ECON 2020, NATR 2050, SUST 2000.

⁴ See College advisor list of Restricted Applications Electives.

⁵ Student may also take COMP 1020 or STAT 5210.

120 TOTAL SEMESTER HOURS

11/23

If planning a certificate, minor, additional major or second degree, please contact the student services office as early as possible at (334) 844-1001 for referral to the appropriate school or college within Auburn University, advising in prerequisites, checks for minimum GPA requirements, and course scheduling. *All information presented here is subject to change.* Current information: https://bulletin.auburn.edu/undergraduate/schoolofforestryandwildlifesciences/preforestry_major/geospatialandenvironmentalinformatics/

Name:

ID#:

Restricted Applications Electives (M) - *students must complete 9 credits from the list below*

BATM	3110	Ag Technology in Geospatial Applications	3
BSEN	5220	Geospatial Technologies in Biosystems	3
COMM	2400	Introduction to Workplace Communication	3
CPLN	5010	Introduction to Community Planning	3
CPLN	5040	Land Use Planning	3
CPLN	5460	GIS for Planning & Policy	3
GEOG	3810	Management Foundations	3
GEOG	5210	Climatology	3
GEOG	5400	Geography of Natural Hazards	3
GEOG	5700	Quantitative Methods & Spatial Analysis	3
GEOG	5850	Drones & Geospatial Applications	3
ISMN	5360	GIS for Business	3
NATR	5310	Environmental Ethics	3
NATR	5550	Watershed Hydrology	3
NATR	5880	Ecological Economics	3
MNGT	3810	Management Foundations	3
PHIL	2110	Logic & Reasoning	3

