

# Natural Resource Management and Sustainability (Geospatial Information Science) - Fall 2023 to Spring 2025

## Spring Entry - Spring 2024 to Spring 2025

Spring 1	Hours
<b>FORS 4050 - Field Measurements</b>	<b>4</b>
prereq Enrollment in the professional program; pre or coreq: Statistics	
S: 03 MW 04-06 M, 03-04 F	
<b>FANR 3200W - Ecology</b>	<b>4</b>
prereq Biology II	
S: 01 TR 04-06 R; 04-06 T	
F: 02 MWF 04-06 M; 04-06 W	
<b>FANR 3700 - Natural Resources Data Processing</b>	<b>3</b>
prereq Statistics	
S: 02 MWF	
<b>GIS Required Option or Elective</b>	<b>3</b>
S: VR	
<b>Total Hours:</b>	<b>14</b>



Fall 1	Hours
<b>FANR 3060 - Soils &amp; Hydrology</b>	<b>4</b>
prereq Chemistry I	
S: 03 MWF 01-02 R; 03-04 R; 04-05 W; 05-06 R	
F: 03 MWF 01-02 R; 03-04 R; 05-06 R; 05-06 W	
<b>FANR 3300 and 3400 - Economics &amp; Society</b>	<b>4</b>
3300+D - first half of term; 3400+D - last half	
<b>FANR 3300 - Economics</b>	<b>2</b>
prereq Second year student standing	
S: 03 TR 05 F	
F: 02 MW 02 F	
<b>FANR 3400 - Society</b>	<b>2</b>
prereq Second year student standing	
S: 03 TR 05 F	
F: 02 MW 02 F	
<b>FANR 3800 - Spatial Analysis</b>	<b>3</b>
pre or coreq FANR 3000, FORS 4050, PRTM 4700, or WILD 4110	
S: 02 MW 04-06 R; 04-06 W	
F: 01 MW 04-06 R; 04-06 W	
<b>GIS Required Option or Elective</b>	<b>3</b>
F: VR	
<b>GIS Remote-Sensing Option</b>	<b>3</b>
F: VR	
<b>Total Hours:</b>	<b>17</b>



Spring 2	Hours
<b>FANR 5620 - GIS Applications for Natural Resources</b>	<b>3</b>
prereq FANR 3800+L	
S: 02 TR 03 TR	
<b>FANR 5630 - Statistical Software for Natl Res Mgmt</b>	<b>3</b>
prereq Statistics	
S: 05-06 F	
<b>FANR 4501 or FANR 4960/4970/4980R - Senior Project I or</b>	<b>1</b>
Choose between Senior Project I or Senior Thesis Research. Students taking Senior Thesis may save research hours until their final term, if desired, or may take 1-3 hours in this term, if desired.	
<b>FANR 4501 - Senior Project I</b>	<b>1</b>
pre or coreq FANR 3300, FORS 4700, FISH 4300, or WILD 4100	
S: 01 T	
F: 01 F	
<b>FANR 4800W - Policy</b>	<b>2</b>
prereq Economics and senior standing	
S: 03 MW	
<b>GIS Required Option or Elective</b>	<b>3</b>
S: VR	
<b>GIS Required Option or Elective</b>	<b>3</b>
S: VR	
<b>Total Hours:</b>	<b>15</b>



Fall 2	Hours
<b>GEOG 4590 - Programming for GIS</b>	<b>3</b>
prereq GEOG 4370	
F: 03-04 M 05-06 M	
<b>FANR 4502S or FANR 4990R - Senior Project II or Thesis</b>	<b>3</b>
Choose between Senior Project II or Senior Thesis. Students taking Senior Thesis must take at least 1 hour of 4990R, plus an additional three hours from 4960R, 4970R, 4980R, and/or 4990R across all terms	
<b>FANR 4502S - Senior Project II</b>	<b>3</b>
prereq FANR 4501	
S: VR	
F: VR	
<b>FANR 4990R - Senior Thesis</b>	<b>4</b>
prereq final semester; apply on Warnell website	
S: VR	
F: VR	
<b>GIS Required Option or Elective</b>	<b>4</b>
F: VR	
<b>Total Hours:</b>	<b>14</b>



01	02	03	04	05	06	07	VR	CLASS PERIODS	TERMS	F	S	SU
8:00-9:35a	9:55-11:15a	11:35-12:55p	1:15p-2:35p	2:55p-4:15p	4:35p-5:55p	6:00p or later	various times			fall	spring	summer

### IMPORTANT NOTES

Actual class time will be within the period times listed but may be shorter. See course schedule for actual times. All non-Warnell class times are based on pre-2026 times and will likely change.

Natural Resource Management and Sustainability (Geospatial Information Science) - Fall 2023 to Spring 2025

Spring Entry - Spring 2024 to Spring 2025

Pre-requisites and class times for non-Warnell courses are subject to change without notice.

WARNING: Do not take GEOG 4370, which repeats material in FANR 3800 & 3800L.

GIS Certificate: students with a 3.0 or higher GPA in the following can receive the GIS certificate: FANR 3800 & 3800L, 5620, GEOG 4590, and GEOG 4350 or 4460 (remote-sensing option)

Major hours needed to graduate: 60

Elective Options		Hours
Remote-Sensing Option		
Choose 1 course (3+ hrs); GEOG 4460 is also approved but not offered consistently		
GEOG 4350 - Remote Sensing of Environment		3
prereq	GEOG 4330	
F:	01-03 T                      01-03 R	
GEOG 4460 - Field Methods Remote Sensing		3
prereq	GEOG 4350	
F:	04-05 W	
GIS Geospatial Electives		
10 hours required		
FANR 5640 - Unmanned Aerial Sys in NR		3
prereq	FANR 3800+L	
S:	01 WF                      05 M	
FORS 5650 - Aerial Photos		3
prereq	Second year student standing	
S:	01 MW                      01 F	
FORS 7670 - Forestry Information Systems		3
even years F:	03 MW	
ATSC 4140 - Satellite Meteor and Climatol		3
prereq	GEOG 1111 or 1112	
F:	03-04 TR	
CRSS 4050 - Nut Energy Eff GIS		4
pre or coreq	CRSS 3030	
F:	03-04 TR	
EDES 4270 - GIS in Env Design		3
F:	04-06 TR	
EDES 4280E - Environmental Design Uses GIS		3
SU:	VR	
GEOG 4330 - Ap Image Interp Lab		3
F:	01-02 MW                      01-02 F	
GEOG 4410 - Cartog Visualization Methods		3
S:	04-05 T                      05-06 T	
GEOG 4450 - Dig Image Analysis		3
prereq	GEOG 4350	
S:	01-02 TR	
GEOG 4460 - Field Methods Remote Sensing		3
prereq	GEOG 4350	
F:	04-05 W	
GEOG 4470 - Geospat Analy Lab		3
prereq	Statistics and GEOG 4370	
S:	04 MW                      05 MW	
GIS Natural Resources Electives		
10 hours required		
FISH 4200 - Aquatic Biology		4
prereq	Biology II	
F:	03 TR                      04-06 R	
FISH 4300 - EBF		4
prereq	Biology II	
S:	03 MWF                      05-06 F	
FISH 4310 - Freshwater Ecosystems		4
prereq	Ecology	

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F:	01-02 MWF	04-06 W	
	FISH 4500 - Fish Physiology	4	
prereq	FISH/WILD 4300		
F:	05 TR	04-06 F	
	FISH 4550 - Sustainable Aquaculture	4	
prereq	Biology II		
S:	03 TR	04-06 R	
	FISH 4600 - Ecotox	3	
prereq	Biology II and Chemistry II		
F:	05-06 M		
	FISH 4650L - Fisheries Field Camp	4	
prereq	Apply through dfs.uga.edu		
odd years	SU: May: VR		
	FORS 3010 - Dendro	3	
prereq	Biology II		
S:	02 TR	04-06 R; 04-06 T; 04-06 W	
F:	03 TR	04-06 R; 04-06 T; 04-06 W	
	FORS 4010 - Silviculture	4	
prereq	(FANR 3000, FORS 4050, or WILD 4110) and Ecology		
F:	02 MWF	04-06 W	
	FORS 4210 - Forest Health	3	
prereq	Biology II		
S:	05-06 F, 02 MW		
	FORS 4610 - Mensuration	4	
prereq	FANR 3000 or FORS 4050		
F:	02 TR	04-06 R	
	FORS 4620 - Timber Management	4	
prereq	FORS 4610		
S:	03-04 F, 01 MW		
	FORS 4700 - Forest Econ	3	
prereq	Second-year class standing		
F:	03 TR	05-06 F	
	PRTM 3310 - Humans Nature Environ Aware	3	
prereq	Enrollment in Warnell prof program		
F:	07 TR		
	PRTM 4400 - Park Management	3	
prereq	Enrollment in Prof Program and (FANR 1100, 3400, or PRTM 3310)		
S:	03 TR		
	PRTM 5410 - Stewardship & Protection	3	
prereq	FANR 3400 or PRTM 3310		
S:	06-07 T	VR	
	PRTM 5800S - Environmental Interpretation	3	
prereq	Second year student standing		
F:	03 TR		
	PRTM 5900 - Ecotourism and Sust Dev	3	
prereq	FANR 3400 or PRTM 3310		
F:	02 TR		
	WASR 4110 - Forest Hydrology	4	
prereq	ENVE 4435 or FANR 3060 or GEOL 4220 or GEOG 4030 or ECOL 3520 or CRSS 3050 or CRSS 4600		
S:	01 MWF	04-06 T	
	WILD 3000W - Intro to Fish and Wildlife	2	
prereq	Biology II		

F:	01 TR	
	WILD 3580 - Vertebrate Natural History	4
prereq	Biology II, enrollment in prof program	
S:	01 MWF	04-06 R; 04-06 T; 04-06 W
	WILD 4040 - Herpetology	4
prereq	Biology II and permission of instructor	
S:	02 TR	04-06 T
	WILD 4050 - Mammalogy	4
prereq	WILD 3580+L	
F:	03 MWF	04-06 T
	WILD 4060 - Ornithology	4
prereq	Biology II	
S:	03 MWF	01-02 F
	WILD 4100 - Wildlife Habitat	3
pre or coreq	Ecology & (WILD 1100E or 3000W)	
F:	02 TR	04-06 F
	WILD 4400 - Physiology & Nutrition	3
pre or coreq	WILD(FISH) 3000W or WILD 1100E	
odd years	S:	02 TR
	WILD 4500 - Non-game & Endangered Species	3
prereq	(WILD 3000W or 1100E) and (WILD 4110 or 4700) and Ecology	
even years	F:	02 TR
	WILD 5100 - Wildlife Diseases	3
S:	03 TR	
	WILD 5700 - Pop Dy	3
prereq	Precalculus and Ecology	
F:	02 MW	04-06 W
	ECOL 4050 - Ichthyology	4
prereq	BIOL 1108	
F:	02-03 TR	02-04 M



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