

**NATURAL RESOURCE MANAGEMENT & SUSTAINABILITY MAJOR (Water & Soil Resources Area of Emphasis)  
COURSE SEQUENCE--SPRING ENTRY (Spring 2019 and later)**

SPRING 1		
<b>FANR 3000</b>	<b>Field Methods</b>	<b>4</b>
prereq: Enrollment in Warnell prof program		
	F: 72 TR	07-08F+(M or 74-76T)
	S: 03 MW	07-08F+(M or 74-76T)
<b>FANR 3060</b>	<b>Soils and Hydrology</b>	<b>4</b>
prereq: Chemistry I		
	F: 04 MWF	W, R: var.
	S: 04 MWF	W, R: var.
<b>FANR 3300</b>	<b>Economics of Ren. Resources</b>	<b>2</b>
1st half	F: 71 TR	01-02 F
of term	S: 73 TR	05-06 F
<b>FANR 3400</b>	<b>Society and Natural Res.</b>	<b>2</b>
2nd half	F: 71 TR	01-02 F
of term	S: 73 TR	05-06 F
<b>GEO 4220</b>	<b>Hydrogeology</b>	<b>3</b>
prereq: none		
	S: 75 TR	
<b>TERM TOTAL: 15</b>		

SPRING 2		
<b>CRSS 4670</b>	<b>Environmental Soil Chemistry</b>	<b>3</b>
prereq: FANR 3060		
	S: 72 TR	
<b>FANR 4800</b>	<b>Renewable Resource Policy</b>	<b>2</b>
prereq: FANR 3200 and (3300 & 3400)		
	S: 03 MW	
<b>WASR 4110</b>	<b>Forest Hydrology</b>	<b>4</b>
prereq: FANR 3060		
	S: 01 MWF	T
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>TERM TOTAL: 15</b>		

All non-Warnell course times are subject to change without notice.

FALL 1		
<b>FANR 3200</b>	<b>Ecology of Natural Res.</b>	<b>4</b>
prereq: Biology II		
	F: 03 MWF	M, F
	S: 71 TR	T, R
<b>FANR 3800</b>	<b>Spatial Analysis</b>	<b>3</b>
prereq: FANR 3000		
	F: 01 MW	W, R
	S: 05 MW	W, R
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>4</b>
<b>TERM TOTAL: 15</b>		

FALL 2		
<b>FANR 4500 or 4990</b>	<b>Senior Project or Senior Thesis</b>	<b>4</b>
pre or coreq: FANR 3300, final semester		
	F: 3:30-4:30 R	or var.
	S: 01 M	or var.
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>REQUIRED OPTION, ELECTIVE, or PHYSICS</b>		<b>3</b>
<b>TERM TOTAL: 15</b>		

CLASS PERIODS:	
01	8:00-8:50a
02	9:05-9:55a
03	10:10-11:00a
04	11:15-12:05p
05	12:20-1:10p
06	1:25-2:15p
07	2:30-3:20p
08	3:35-4:25p
09	4:40-5:30p
10	5:45-6:35p
11	6:50-7:40p
12	7:55-8:45p
13	9:00-9:15p
71	8:00-9:15a
72	9:30-10:45a
73	11:00-12:15p
74	12:30-1:45p
75	2:00-3:15p
76	3:30-4:45p
77	5:00-6:15p
78	6:30-7:45p
79	8:00-9:15p
80	9:30-10:45p
VR	various times
AR	to be arranged

TERMS:	
F:	Fall
S:	Spring
SU:	Summer

Hours Needed to Graduate:  
60

Underneath each course title, you will find listed the term, the class period and days meeting for the lecture, and the day(s) the labs are offered, separated by a comma for separate sections. Assume the labs are in the afternoon (periods 06 or 75 or later), unless otherwise noted.

**NATURAL RESOURCE MANAGEMENT & SUSTAINABILITY MAJOR (Water & Soil Resources Area of Emphasis)  
COURSE SEQUENCE--FALL ENTRY (continued)**

**OPTIONS & ELECTIVES:**

REQUIRED OPTION #1			
<b>CRSS 4600</b>	<b>Soil Physics</b>		<b>4</b>
prereq:	FANR 3060, Calculus, & Physics I		
also online	<b>S: 05 MWF</b>	<b>74-75 R</b>	
<b>WASR 4500</b>	<b>Quant. Methods in Hydrology</b>		<b>3</b>
prereq:	FANR 3060		
	<b>F: 72 TR</b>		

REQUIRED OPTION #2			
<b>CRSS 4540</b>	<b>Pedology</b>		<b>3</b>
prereq:	FANR 3060		
	<b>S: 03 MWF</b>	<b>07-09 M</b>	

**^req'd for cert as soil classifier in Georgia**

<b>GEOG 3010</b>	<b>General Geomorphology</b>		<b>3</b>
prereq:	none		
	<b>F: 73 TR</b>		

REQUIRED OPTION #3			
<b>CRSS 4610</b>	<b>Soil Microbiology</b>		<b>3</b>
prereq:	none		
	<b>F: 02 MW</b>	<b>06-07 F</b>	
<b>EHSC 4310</b>	<b>Environmental Microbiology</b>		<b>4</b>
prereq:	MIBO 3000 or 3500		
	<b>S: 72 TR</b>	<b>06-08 W</b>	
<b>WASR 4310</b>	<b>Freshwater Ecosystems</b>		<b>4</b>
prereq:	FANR 3200		
	<b>F: 02 MWF</b>	<b>06-08 M</b>	

COMPUTER PROGRAMMING OPTION			
<b>CSCI 1301</b>	<b>Intro to Computing</b>		<b>4</b>
prereq:	Precalculus		
	<b>F: 72, 73, 74, or 75 TR*</b>		
	<b>S: 72, 73, 74, or 75 TR*</b>		
	<b>SU: also offered</b>		
<b>^many labs are offered at various times</b>			
<b>CSCI 1360</b>	<b>Informatics &amp; Data Analytics</b>		<b>4</b>
prereq:	Precalculus		
	<b>S: 76 TR</b>	<b>08 W</b>	
<b>CSCI 2150</b>	<b>Intro to Computational Science</b>		<b>4</b>
prereq:	Precalculus		
even years	<b>S: 72 TR</b>	<b>08 MW or 73 TR</b>	
<b>FANR 4700</b>	<b>Computational Plant Science</b>		<b>3</b>
prereq:	STAT 2000 or BIOS 2010		
	<b>S: AR</b>		

PHYSICS I			
<b>PHYS 1111</b>	<b>Physics I</b>		<b>4</b>
prereq:	Precalculus		
	<b>F: 06 MWF</b>	<b>various</b>	
	<b>F: 07 MWF</b>	<b>various</b>	
	<b>F: 72 TR</b>	<b>various</b>	
	<b>F: 73 TR</b>	<b>various</b>	
	<b>S: 06 MWF</b>	<b>various</b>	
	<b>S: 07 MWF</b>	<b>various</b>	
	<b>SU: also offered</b>		

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Water & Soil Resources Electives (9 hrs)			
<b>CRSS 2010</b>	<b>Crop Science</b>		<b>3</b>
prereq:	none		
<b>CRSS 3540</b>	<b>Soil Morphology &amp; Interp.</b>		<b>1-3</b>
prereq:	permission of department		
<b>CRSS 4540</b>	<b>Pedology</b>		<b>3</b>
prereq:	FANR 3060		
<b>CRSS 4580</b>	<b>Soil Erosion &amp; Conservation</b>		<b>3</b>
prereq:	FANR 3060		
<b>CRSS 4600</b>	<b>Soil Physics</b>		<b>3</b>
prereq:	FANR 3060, Calculus, and Physics I		
<b>CRSS 4610</b>	<b>Soil Microbiology</b>		<b>3</b>
prereq:	none		
<b>EHSC 4310</b>	<b>Environmental Microbiology</b>		<b>4</b>
prereq:	MIBO 3000 or 3500		
<b>EHSC 4350</b>	<b>Environmental Chemistry</b>		<b>3</b>
prereq:	Organic Chemistry I & Precalculus		
pre or coreq:	STAT 2000 or BIOS 2010		
<b>EHSC 4490</b>	<b>Environmental Toxicology</b>		<b>3</b>
prereq:	Organic Chemistry I & Biology II		
<b>EHSC 4610</b>	<b>Water Pollution &amp; Health</b>		<b>3</b>
prereq:	FANR 3060		
<b>FORS 3010</b>	<b>Dendrology</b>		<b>3</b>
prereq:	Biology II		
	<b>F: 73 TR</b>	<b>T, W, R</b>	
	<b>S: 72 TR</b>	<b>T, W, R</b>	
<b>GEOG 3010</b>	<b>General Geomorphology</b>		<b>3</b>
prereq:	none		
<b>GEOG 4060</b>	<b>Field Mthds: Monitor &amp; Assess</b>		<b>3</b>
prereq:	none		
<b>GEOG 4300</b>	<b>Data Science in Geography</b>		<b>3</b>
coreq:	none		
<b>GEOG 4330</b>	<b>Aerial Photos &amp; Interp</b>		<b>3</b>
prereq:	none		
<b>GEOG 4350</b>	<b>Remote Sensing of Envir.</b>		<b>3</b>
prereq:	GEOG 4330		
<b>GEOL 3010</b>	<b>Earth Materials</b>		<b>4</b>
prereq:	Chemistry I		
<b>GEOL 3020</b>	<b>Surficial &amp; Near-Surf. Proc.</b>		<b>4</b>
prereq:	GEOL 1121 or 1250		
pre or coreq:	GEOL 1122 or 1260		
<b>GEOL 4110</b>	<b>Principles of Geochemistry</b>		<b>3</b>
prereq:	Chemistry II & GEOL 3010		
<b>WASR 3000+</b>	<b>any 3000+ WASR course</b>		<b>var.</b>
prereq:	various		
<b>WASR 3900</b>	<b>WASR Internship</b>		<b>3</b>
prereq:	apply before internship on Warnell site		
	<b>SU: VR</b>		
<b>^only 3 hrs of 3900 can count towards graduation</b>			
<b>WASR 4000</b>	<b>Forest Soil Management</b>		<b>3</b>
prereq:	FANR 3060		
odd years	<b>S: 71 TR</b>	<b>75-76 R</b>	
<b>WASR 4310</b>	<b>Freshwater Ecosystems</b>		<b>4</b>
prereq:	FANR 3200		
	<b>F: 02 MWF</b>	<b>06-08 M</b>	
<b>WASR 4500</b>	<b>Quant. Methods in Hydrol.</b>		<b>3</b>
prereq:	FANR 3060		
	<b>F: 72 TR</b>		
<b>WASR 4660</b>	<b>Hydrogeochem. Characteriz.</b>		<b>3</b>
prereq:	Chemistry II and FANR 3060		
	<b>S: AR</b>		
<b>WASR 4700L</b>	<b>Hydrol., Geol., &amp; Soils of GA</b>		<b>3</b>
prereq:	apply through StudyAway portal		
	<b>SU: VR (Maymester)</b>		
or other, advisor-approved course			

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<b>01</b>	8:00-8:50a
<b>02</b>	9:05-9:55a
<b>03</b>	10:10-11:00a
<b>04</b>	11:15-12:05p
<b>05</b>	12:20-1:10p
<b>06</b>	1:25-2:15p
<b>07</b>	2:30-3:20p
<b>08</b>	3:35-4:25p
<b>09</b>	4:40-5:30p
<b>10</b>	5:45-6:35p
<b>11</b>	6:50-7:40p
<b>12</b>	7:55-8:45p
<b>13</b>	9:00-9:15p
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<b>VR</b>	various times
<b>AR</b>	to be arranged

TERMS:	
<b>F:</b>	Fall
<b>S:</b>	Spring
<b>SU:</b>	Summer

<b>Hours Needed to Graduate:</b>	<b>60</b>
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