

**NATURAL RESOURCE MANAGEMENT & SUSTAINABILITY MAJOR (Water & Soil Resources Area of Emphasis)
COURSE SEQUENCE--FALL ENTRY (Fall 2020-Fall 2021)**

FALL 1		
FANR 3000	Field Methods	4
prereq: Enrollment in Warnell prof program		
	F: 72 TR	07-08F+(M or 74-76T)
	S: 03 MW	07-08F+(M or 74-76T)
FANR 3060	Soils and Hydrology	4
prereq: Chemistry I		
	F: 04 MWF	W, R: var.
	S: 04 MWF	W, R: var.
FANR 3300	Economics of Ren. Resources	2
1st half	F: 71 TR	01-02 F
of term	S: 73 TR	05-06 F
FANR 3400	Society and Natural Res.	2
2nd half	F: 71 TR	01-02 F
of term	S: 73 TR	05-06 F
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
TERM TOTAL: 15		

FALL 2		
GEOL 4220	Hydrogeology	3
prereq: none		
	F: 74 TR	
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
TERM TOTAL: 15		

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

SPRING 1		
FANR 3200W	Ecology of Natural Res.	4
prereq: Biology II		
	F: 03 MWF	M, F
	S: 71 TR	T, R
FANR 3800	Spatial Analysis	3
prereq: FANR 3000		
	F: 01 MW	W, R
	S: 05 MW	W, R
WASR 4110	Forest Hydrology	4
prereq: FANR 3060		
	S: 01 MWF	T
REQUIRED OPTION, ELECTIVE, or PHYSICS		
4		
TERM TOTAL: 15		

SPRING 2		
CRSS 4670	Environmental Soil Chemistry	3
prereq: FANR 3060		
	S: 72 TR	
FANR 4500S or 4990R	Senior Project or Senior Thesis	4
pre or coreq: FANR 3300, final semester		
	F: 3:30-4:30 R or var.	
	S: 01 M or var.	
FANR 4800W	Renewable Resource Policy	2
prereq: Economics and senior standing		
	S: 03 MW	
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
REQUIRED OPTION, ELECTIVE, or PHYSICS		
3		
TERM TOTAL: 15		

CLASS PERIODS:	
01	8:00-8:50a
02	9:10-10:00a
03	10:20-11:10a
04	11:30a-12:20p
05	12:40-1:30p
06	1:50-2:40p
07	3:00-3:50p
08	4:10-5:00p
09	5:20-6:10p
10	6:30-7:20p
11	6:50-7:40p
12	7:55-8:45p
13	9:00-9:50p
71	8:00-9:15a
72	9:35-10:50a
73	11:10a-12:25p
74	12:45-2:00p
75	2:20-3:35p
76	3:55-5:10p
77	5:30-6:45p
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		
CRSS 4600	Soil Physics	4
prereq:	FANR 3060, Calculus, & Physics I	
also online	S: 05 MWF 74-75 R	
WASR 4500	Quant. Methods in Hydrology	3
prereq:	FANR 3060	
	F: 72 TR	
REQUIRED OPTION #2		
CRSS 4540	Pedology	3
prereq:	FANR 3060	
	S: 03 MWF 07-09 M	
^req'd for cert as soil classifier in Georgia		
GEOG 3010	General Geomorphology	3
prereq:	none	
	F: 73 TR	

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

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

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

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

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

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