

Natural Resource Management and Sustainability (Water and Soil Resources) - Fall 2023 to Spring 2025

Spring Entry - Spring 2024

Spring 2024	Hours
FORS 4050 - Field Measurements	4
prereq Enrollment in the professional program; pre or coreq: Statistics	
S: 03 MW 04-06 M, 03-04 F	
FANR 3200W - Ecology	4
prereq Biology II	
S: 01 TR 04-06 R; 04-06 T	
F: 02 MWF 04-06 M; 04-06 W	
FANR 3300 and 3400 - Economics & Society	4
3300+D - first half of term; 3400+D - last half	
FANR 3300 - Economics	2
prereq Second year student standing	
S: 03 TR 05 F	
F: 02 MW 02 F	
FANR 3400 - Society	2
prereq Second year student standing	
S: 03 TR 05 F	
F: 02 MW 02 F	
WASR Required Option, Elective, or Physics	3
S: VR	
Total Hours:	15



Fall 2024	Hours
FANR 3060 - Soils & Hydrology	4
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	
FANR 3800 - Spatial Analysis	3
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	
WASR Required Option, Elective, or Physics	3
F: VR	
WASR Required Option, Elective, or Physics	3
F: VR	
WASR Required Option, Elective, or Physics	4
F: VR	
Total Hours:	17



Spring 2025	Hours
CRSS 4670 - Environmental Soil Chemistry	3
prereq CRSS 3060 or FANR 3060	
S: 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	
FANR 3700 - Natural Resources Data Processing	3
prereq Statistics	
S: 02 MWF	
FANR 4501 or FANR 4960/4970/4980R - Senior Project I or Research	1
FANR 4501 - Senior Project I	1
pre or coreq FANR 3300, FORS 4700, FISH 4300, or WILD 4100	
S: 01 T	
F: 01 F	
FANR 4800W - Policy	2
prereq Economics and senior standing	
S: 03 MW	
WASR Required Option, Elective, or Physics	3
S: VR	
Total Hours:	16



Fall 2025	Hours
FANR 4502S or FANR 4990R - Senior Project II or Thesis	3
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	
FANR 4502S - Senior Project II	3
prereq FANR 4501	
S: VR	
F: VR	
FANR 4990R - Senior Thesis	4
prereq final semester; apply on Warnell website	
S: VR	
F: VR	
WASR Required Option, Elective, or Physics	3
F: VR	
WASR Required Option, Elective, or Physics	3
F: VR	
WASR Required Option, Elective, or Physics	3
F: VR	
Total Hours:	12



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

Major hours needed to graduate: 60

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.												

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Elective Options		Hours
PHYS 1111 - Introductory Physics I		
Choose one Physics I course (4+ hours)		
prereq	PHYS 1111 - Intro Physics Mechanic	4
S:	01-02 TR; 03 MWF; 03-04 MWF	01-02 F; 01-02 M; 01-02 R; 01-02 W; 02-04 R; 04-05 M; 04-05 W; 04-06 T; 05-06 M; 05-06 W; 06-07 T; 07 M; 07 W
SU:	01-02 MTWRF	04-05 MW; 04-05 TR
F:	01-02 TR; 02 MWF; 03-04 MWF; 04 MWF	01-02 F; 01-02 M; 01-02 W; 02-03 R; 02-03 T; 03-04 M; 03-04 W; 04-05 T; 05-06 M; 05-06 W; 06-07 M; 06-07 R; 06-07 T; 06-07 W
prereq	PHYS 1211 - Prin Physics for Scie Engr La	4
prereq	Calculus	
S:	01-02 TR; 03-04 MWF; 04 MWF	02-03 F; 02-03 M; 02-03 W; 04-05 R; 06-07 R; 07 T
SU:	03 MTWRF	05-07 MW
F:	01-02 MWF; 02-03 TR; 03-04 TR; 05 MWF; 05-06 MWF	01-02 R; 01-02 T; 02-03 M; 02-03 W; 03-04 M; 03-04 W; 04-05 M; 06-07 W
F:	01-02 MWF; 02-03 TR; 03-04 TR; 05 MWF; 05-06 MWF	01-02 R; 01-02 T; 02-03 M; 02-03 W; 03-04 M; 03-04 W; 04-05 M; 06-07 W
prereq	PHYS 1311 - Adv Introductory Physics I La	4
prereq	MATH 2250; pre or coreq: MATH 2260	
S:	03-04 TR	01-02 T
Required Option #1 (CHOOSE TWO)		
Choose two courses (6+ hours total)		
prereq	WASR 4500 - Quantitative Methods/Hydrol.	3
prereq	ENVE 4435 or FANR 3060 or WASR 4110 or GEOL 4220 or GEOG 4030 or CRSS 4600	
F:	02 TR	
prereq	CRSS 4600 - Soil Physics	4
prereq	FANR 3060 and Calculus and Physics I	
S:	03 MWF	05-06 R
prereq	GEOL 4220 - Hydrogeology	3
F:	03-04 TR	
Required Option #2		
Choose one course (3+ hours)		
prereq	CRSS 4540 - Pedology	3
prereq	FANR 3060	
S:	05-06 M, 02 WF	05-06 M
prereq	GEOG 3010 - General Geomorphology	3
F:	02-03 TR	
Required Option #3		
Choose one course (3+ hours)		
prereq	FISH 4310 - Freshwater Ecosystems	4
prereq	Ecology	
F:	01-02 MWF	04-06 W
prereq	CRSS 4610 - Soil Microbiology	4
F:	01-02 MWF	01-02 R
prereq	EHSC 4310 - Environmental Microbiology	4

prereq	MIBO 3000 or 3500	
S:	02 TR	05-06 M
WASR Electives		
Choose 9 hours with your faculty mentor		
prereq	COFA 5301 - Comm Urban Soils Site Develop	4
prereq	FANR 3060 and COFA 5001	
S:	01 MW	04-06 W
prereq	FISH 4310 - Freshwater Ecosystems	4
prereq	Ecology	
F:	01-02 MWF	04-06 W
prereq	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
prereq	WASR 3900 - WASR Internship	1
prereq	apply before internship through Warnell site	
SU:	VR	
SU:	VR	
SU:	VR	
prereq	WASR 4000 - Forest Soil Management	4
prereq	CRSS 3050 or FANR 3060	
even years	F:	03 TR 04-06 F
prereq	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
prereq	WASR 4400 - Wetland Mgmt and Restoration	3
prereq	WASR 1020, FANR 3060, or Ecology	
S:	03 MW	04-06 W
prereq	WASR 4500 - Quantitative Methods/Hydrol.	3
prereq	ENVE 4435 or FANR 3060 or WASR 4110 or GEOL 4220 or GEOG 4030 or CRSS 4600	
F:	02 TR	
prereq	WASR 4660 - Envir Field Site Characteriz	3
prereq	Chemistry II and FANR 3060	
S:	04-06 WF	
prereq	WASR 4700L - Hydrology Field Study	3
prereq	Permission of instructor	
SU:	May: VR	
prereq	CRSS 2010 - Crop Science	3
F:	05 MWF	
prereq	CRSS 3540 - Soil Morphology and Interpret	1-3
prereq	Permission of department	
F:	VR	
prereq	CRSS 4540 - Pedology	3
prereq	FANR 3060	
S:	05-06 M, 02 WF	05-06 M
prereq	CRSS 4580 - Erosion and Conserv	3
prereq	FANR 3060	
S:	03 TR	
prereq	CRSS 4600 - Soil Physics	4
prereq	FANR 3060 and Calculus and Physics I	
S:	03 MWF	05-06 R
prereq	CRSS 4610 - Soil Microbiology	4

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	F: 01-02 MWF	01-02 R	
	EHSC 4310 - Environmental Microbiology		4
prereq	MIBO 3000 or 3500		
	S: 02 TR	05-06 M	
	EHSC 4350 - Environmental Chemistry Lab		3
pre or coreq	Statistics		
	F: 05 MW	03-04 F; 05-06 M; 05-06 W	
	EHSC 4490 - Environ Toxicology		3
prereq	CHEM 2211 and Biology II		
	F: 02-03 TR		
	EHSC 4610 - Water Pollution Human Health		3
prereq	FANR 3060		
	F: 03-04 TR		
	GEOG 3010 - General Geomorphology		3
	F: 02-03 TR		
	GEOG 4300 - Intro Spatial Analy		3
	F: 05-06 TR		
	GEOG 4330 - Ap Image Interp Lab		3
	F: 01-02 MW	01-02 F	
	GEOG 4350 - Remote Sensing of Environment		3
prereq	GEOG 4330		
	F: 01-03 T	01-03 R	
	GEOL 3010 - Earth Materials Lab		4
prereq	Chemistry I		
	F: 03-04 MW	04-06 MW	
	GEOL 3020 - Surficial Near-Surf Proc Lab		4
prereq	GEOL 1121 or 1250; pre or co: GEOL 1122 or 1260		
	F: 01-02 TR	04-07 T	



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