



## SCHOOL OF FOREST RESOURCES

### Professional Program Curriculum

#### Forest Environmental Resources Major Program of Study

Course ID	Course Title	Hours
FORS 3000-3000L	Field Orientation and Measurements in Forest Resources	4
FORS 3010-3010L or BTNY 4650-4650L	Dendrology or Plant Taxonomy	3 or 4
FORS 3020-3020L or ECOL (BIOL) 3500-3500L	Forest Ecology or Ecology	4
FORS (CRSS) 3060-3060L	Soils and Hydrology	4
FORS 3300	Introduction to Fish and Wildlife Management	2
FORS 3610-3610L	Forest Biometrics	3
FORS 3710-3710D	Forest Resource Economics and Management	3
FORS 3910-3910L	Spatial Information in Forest Resources	3
FORS 4010-4010L	Silviculture	4
FORS 4160-4160L	Environmental Monitoring	3
FORS 4730 or FORS 4750	Senior Project or Senior Thesis	4
FORS 4800-4800D	Forest Resources Policy	3
<b>Non Area of Emphasis Major Electives</b>		<b>3</b>
<b>Area of Emphasis Courses</b>		<b>19-20</b>
<b>Professional Hours</b>		<b>62-64</b>
<b>Total with Regents Core</b>		<b>122-124</b>

Forest Environmental Resources majors must complete one of the following three (3) areas of emphasis.



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#### Forest Environmental Resources Major Soil Management Area of Emphasis with Approved Electives<sup>†</sup>

Course work in this area of emphasis provides additional understanding of soil characteristics and soil processes which influence forest site productivity. Students completing this area of emphasis will have satisfied minimum course requirements for certification as a soil scientist.

Course ID	Course Title	Hours
<b>REQUIRED COURSES</b>		
FORS 4000-4000L	Forest Soil Management	3
FORS 4110	Forest Hydrology	4
CRSS 4540-4540L	Pedology	3
CRSS 4600-4600L	Soil Physics	4
<b>APPROVED ELECTIVES</b>		
<i>Select at least one of the following</i>		
CRSS 4510	Contaminants in Soil	3
CRSS 4520	Field Soil and Site Assessment	3
CRSS 4590-4590L	Soil Fertility	4
CRSS (MIBO) 4610-4610L	Environmental Soil Chemistry	3
<i>Select one or more from the elective list above or the elective list below</i>		
FORS 4120	Quantitative Methods in Hydrology	3
FORS 4130	Field Methods in Hydrology	2
FORS 4150	Environmental Systems	2
ECOL (FORS) 4310-4310L	Limnology	4
FORS 5820	Natural Resources Law for Managers and Administrators	4
GEOG 4020	Fluvial Geomorphology	3
ENGR 3050	Soil and Water Resource Conservation	3
ENGR 3410	Introduction to Natural Resource Engineering	3
ENGR 3440	Water Management	3
EHSC 4350-4350L	Environmental Chemistry	3
EHSC 4490	Environmental Toxicology	3
EHSC 4610	Water Pollution and Human Health	3
MATH 2700	Elementary Differential Equations	3

<sup>†</sup> Other electives may be substituted with approval of advisor



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#### Forest Environmental Resources Major Water Resources Area of Emphasis with Approved Electives<sup>†</sup>

Course work in this area of emphasis provides additional background in water resource management and technical capabilities in hydrologic and water quality assessments. It also prepares students for advanced study in water resources at the graduate level.

Course ID	Course Title	Hours
<b>REQUIRED COURSES</b>		
FORS 4110	Forest Hydrology	4
FORS 4120	Quantitative Methods in Hydrology	3
CRSS 4600-4600L	Soil Physics	4
GEOL 4220	Hydrogeology	3
<b>APPROVED ELECTIVES (6 HOURS FROM THE FOLLOWING LIST)</b>		
FORS 4130	Field Methods in Hydrology	2
FORS 4150	Environmental Systems	2
ECOL (FORS) 4310-4310L	Limnology	4
FORS 5820	Natural Resources Law for Managers and Administrators	4
GEOG 4020	Fluvial Geomorphology	3
ENGR 3050	Soil and Water Resource Conservation	3
ENGR 3410	Introduction to Natural Resource Engineering	3
ENGR 3440	Water Management	3
EHSC 4350-4350L	Environmental Chemistry	3
EHSC 4490	Environmental Toxicology	3
EHSC 4590-4590L	Water and Wastewater	3
EHSC 4610	Water Pollution and Human Health	3
MATH 2700	Elementary Differential Equations	3

<sup>†</sup> Other electives may be substituted with approval of advisor



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#### Forest Environmental Resources Major Environmental Resource Assessment Area of Emphasis with Approved Electives<sup>†</sup>

Course work in this area of emphasis provides additional background in the measurement of biological and physical site characteristics, and in environmental regulations governing land use. It is intended to prepare students for careers in environmental consulting and government agencies overseeing environmental protection.

Course ID	Course Title	Hours
<b>REQUIRED COURSES</b>		
FORS (ECOL) 3580-3580L	Vertebrate Natural History	5
FORS (ECOL) 4310-4310L	Limnology	4
FORS 5310-5310L	Techniques in Wildlife Population Management	4
FORS 5820	Natural Resources Law for Managers and Administrators	4
<b>APPROVED ELECTIVES (2 HOURS FROM THE FOLLOWING LIST)</b>		
ADPR 3850	Public Relations	3
BTNY 4850	Vegetation Analysis	3
CRSS 4370	Heavy Metals in the Environment	2
CRSS 4510	Contaminants in Soils	3
CRSS 4520	Field Soil and Site Assessment	3
CRSS 4540	Pedology	3
ECOL 3070	Environment and Humans	3
ECOL 3520	Ecological Applications	3
ECOL 4010	Ecosystem Ecology	3
ECOL 4030	Mammalogy	4
ECOL 4040	Herpetology	4
ECOL 4060	Ornithology	3
ECOL 4070	Invertebrate Zoology	4
ECOL (EETH) 4200	Ecological Values	4
EHSC 4080	Environmental Air Quality	3
ECOL (FORS) 4261	Museum of Natural History Internship	3
GEOG 3010	General Geomorphology	3
GEOG 3210	Biogeography	3
GEOG 4020	Fluvial Geomorphology	3
GEOG (BTNY) 4220	Ecological Biogeography	3
GEOG (BTNY) 4240	Plant Geography	3
GEOG 4330	The Use and Interpretation of Aerial Photographs	3
GEOG 4350	Remote Sensing in the Environment	3
GEOG 4430	Advanced Photogrammetry	3
GEOL 2120	Introduction to Environmental Geology	3
GEOL 3120	Geological Hazards	3
GEOL 3150	Coastal Processes and Conservation	3

<sup>†</sup> Other electives may be substituted with approval of advisor