FORESTRY (B.S.FORESTRY)

Students must have a minimum cumulative grade-point average of 2.00 in FOR courses to qualify for the B.S.Forestry.

Required course work includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/)) and:

Code	Title	Hours
BIOL 114	Organisms and Environments	4
ECON 202	Principles of Microeconomics	3
ENT 469	Introduction to Forest Insects	2
FOR 102	Introduction to Forest Management	2
FOR 220	Forest Biology & Dendrology	3
FOR 221	Principles of Ecology	3
FOR 235	Society and Natural Resources	3
FOR 274	Forest Measurement and Inventory	3
FOR 275	Forestry Resource Sampling	2
FOR 324	Forest Regeneration	3
FOR 330	Terrestrial Ecosystem Ecology	4
FOR 375	Fundamentals of Geomatics	3
FOR 424	Silviculture Principles and Practices	4
FOR 430	Forest Operations	3
FOR 462	Watershed Science and Management	3
FOR 468	Forest and Plant Pathology	2
FOR 484	Forest Policy and Administration	2
FOR 493	Business of Forestry	2
MATH 143	College Algebra [1]	3
MATH 144	Analytic Trigonometry [1]	1
NR 101	Exploring Natural Resources	2
NRS 383	Natural Resource and Ecosystem Service Economics	3
FIRE 144	Wildland Fire Management	3
or FIRE 326	Fire Ecology	
SOIL 205	The Soil Ecosystem	3
SOIL 206	The Soil Ecosystem Lab	1
STAT 251	Statistical Methods	3
Select one of the following:		4
CHEM 101 & 101L	Introduction to Chemistry and Introduction to Chemistry Laboratory	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	
Select one of the following:		4
PHYS 100 & 100L	Fundamentals of Physics and Fundamentals of Physics Lab	
PHYS 111 & 111L	General Physics I and General Physics I Lab	
Emphasis		
Select one of the following emphases:		
General Forestry Emphasis		
Forest Operations Emphasis		
Forest Biology Emphasis		
Forest Hydrology & Watershed Management Emphasis		
Total Hours		**78**

A. General Forestry Emphasis

Code	Title	Hours
Select 18 credits of electives at or above the 300-level		18
Total Hours		**18**

B. Forest Operations Emphasis

Code	Title	Hours
FOR 431	Low Volume Forest Roads	2
FOR 436	Cable Systems	2
FSP 100	Introduction to Forest and Sustainable Products	2
FSP 321	Properties of Forest and Sustainable Products	3
FSP 444	Primary Forest Products Manufacturing	3
ACCT 201	Introduction to Financial Accounting	3
Total Hours		**15**

C. Forest Biology Emphasis

Code	Title	Hours
BIOL 115 & 115L	Cells and the Evolution of Life and Cells and the Evolution of Life Laboratory	4
BIOL 213	Structure and Function Across the Tree of Life	4
CHEM 112 & 112L	General Chemistry II and General Chemistry II Laboratory	5
CHEM 275	Carbon Compounds	3
or CHEM 277	Organic Chemistry I	
MATH 160	Survey of Calculus	4
or MATH 170	Calculus I	
WLF 370	Management and Communication of Scientific Data	3
Select two courses from the following list:		6
BIOL 314	Ecology and Population Biology	
FOR 443	Forest Production Ecology	
GEOG 313	Global Climate Change	
GEOG 410	Biogeography	
GEOG 430	Climate Change Ecology	
REM 440	Restoration Ecology	
WLF 440	Conservation Biology	
Total Hours		**29**

D. Forest Hydrology & Watershed Management Emphasis

Code	Title	Hours
GEOL 111	Physical Geology for Science Majors	3
MATH 170	Calculus I	4
MATH 175	Calculus II	4
PHYS 112 & 112L	General Physics II and General Physics II Lab	4
STAT 301	Probability and Statistics	3
Select one course from the following:		3-4
FISH 415	Limnology	
FISH 430	Riparian and River Ecology	

Select two courses from the following:		6
GEOG 385	Foundations of GIS	
GEOG 424	Hydrologic Applications of GIS and Remote Sensing	
GEOG 475	Intermediate GIS	
GEOG 479	GIS Programming	
Select two courses from the following:		6
GEOG 301	Meteorology	
GEOL 309	Ground Water Hydrology	
HYDR 409	Quantitative Hydrogeology	
SOIL 415	Soil and Environmental Physics	
SOIL 450	Environmental Hydrology	
SOIL 452	Environmental Water Quality	
Total Hours		**33-34**

Courses to total 120 credits for this degree

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A SAT math score of 610 or above, or ACT math score of 27 or above, can be used to satisfy the MATH 143 and MATH 144 requirements.

Fall Term 1		**Hours**
BIOL 114	Organisms and Environments	4
ENGL 101	Writing and Rhetoric I	3
FOR 102	Introduction to Forest Management	2
MATH 143	College Algebra	3
MATH 144	Analytic Trigonometry	1
NR 101	Exploring Natural Resources	2
	Hours	**15**
Spring Term 1		
ENGL 102	Writing and Rhetoric II	3
FOR 235	Society and Natural Resources	3
Oral Communication Course		3
(CHEM 101 AND CHEM 101L) OR (CHEM 111 AND CHEM 111L)		4
FIRE 326 OR FIRE 144		3
	Hours	**16**
Fall Term 2		
FOR 274	Forest Measurement and Inventory	3
SOIL 205	The Soil Ecosystem	3
SOIL 206	The Soil Ecosystem Lab	1
STAT 251	Statistical Methods	3
(PHYS 100 AND PHYS 100L) OR (PHYS 111 AND PHYS 111L)		4
	Hours	**14**
Spring Term 2		
ECON 202	Principles of Microeconomics	3
FOR 221	Principles of Ecology	3
FOR 275	Forestry Resource Sampling	2
Humanistic and Artistic Ways of Knowing Course		3
American Diversity Course		3
	Hours	**14**
Fall Term 3		
FOR 220	Forest Biology & Dendrology	3
FOR 375	Fundamentals of Geomatics	3
International Course		3
Emphasis Area, Major Elective Course		3
Elective Course		3
	Hours	**15**
Spring Term 3		
FOR 324	Forest Regeneration	3
FOR 330	Terrestrial Ecosystem Ecology	4
NRS 383	Natural Resource and Ecosystem Service Economics	3
Humanistic and Artistic Ways of Knowing Course		3
Emphasis Area, Major Elective Course		3
	Hours	**16**
Fall Term 4		
FOR 424	Silviculture Principles and Practices	4
FOR 430	Forest Operations	3
FOR 493	Business of Forestry	2
Emphasis Area, Major Elective Course		3
Emphasis Area, Major Elective Course		3
	Hours	**15**
Spring Term 4		
ENT 469	Introduction to Forest Insects	2
FOR 468	Forest and Plant Pathology	2
FOR 484	Forest Policy and Administration	2
FOR 462	Watershed Science and Management	3
Emphasis Area, Major Elective Course		3
Emphasis Area, Major Elective Course		3
	Hours	**15**
	Total Hours	**120**

The degree map is a guide for the timely completion of your curricular requirements. Your academic advisor or department may be contacted for assistance in interpreting this map. This map is not reflective of your academic history or transcript and it is not official notification of completion of degree or certificate requirements. Please contact the Registrar's Office regarding your official degree/certificate completion status.

1. Graduates will be able to conduct forest resource inventories and perform field measurements of forest ecosystems, providing the foundation for making science-based management decisions.
2. Graduates will be able to think critically, and will have the skills to develop, evaluate, synthesize, and apply scientific knowledge (i.e., biological, physical, and socioeconomic) from a variety of sources (i.e., scientific literature, technologies, and expert advice) to evaluate and justify forest management decisions and management alternatives.
3. Graduates will be able to communicate plans and decisions effectively in light of existing policies and laws by listening actively, formulating, articulating, and explaining ideas clearly using both oral and written techniques.
4. Graduates will be able to work effectively as an individual and collaboratively with teams of people, including effective leadership of groups working toward a common goal.