

# 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 1140	Organisms and Environments	4
ECON 2202	Principles of Microeconomics	3
ENT 4690	Introduction to Forest Insects	2
FOR 1400	Introduction to Forest Management	2
FOR 2100	Principles of Ecology	3
FOR 2110	Forest Biology & Dendrology	3
FOR 2210	Forest Mensuration I	3
FOR 2220	Forest Mensuration II	3
FOR 2500	Forest Operations I	2
FOR 2350	Society and Natural Resources	3
FOR 3100	Terrestrial Ecosystem Ecology	3
FOR 3400	Forest Regeneration	3
FOR 3700	Fundamentals of Geomatics	3
FOR 4150	Forest and Plant Pathology	2
FOR 4300	Business of Forestry	2
FOR 4310	Forest Policy and Administration	2
FOR 4400	Silviculture Principles and Practices	4
FOR 4500	Forest Operations II	2
FOR 4600	Watershed Science and Management	3
MATH 1143	Precalculus I: Algebra <sup>1</sup>	3
NR 1010	Exploring Natural Resources	2
NRS 3830	Natural Resource and Ecosystem Service Economics	3
FIRE 1144	Wildland Fire Management	3
or FIRE 3326	Fire Ecology	
SOIL 2050	The Soil Ecosystem	3
SOIL 2060	The Soil Ecosystem Lab	1
STAT 2510	Statistical Methods	3
Select one of the following:		4
CHEM 1101 & 1101L	Introduction to Chemistry and Introduction to Chemistry Laboratory	
CHEM 1111 & 1111L	General Chemistry I and General Chemistry I Laboratory	
Select one of the following:		4
PHYS 1000 & 1000L	Fundamentals of Physics and Fundamentals of Physics Lab	
PHYS 1111 & 1111L	General Physics I and General Physics I Lab	

## Emphasis

Select one of the following emphases: 15-34

General Forestry Emphasis (p. 1)

Forest Operations Emphasis (p. 1)

Forest Biology Emphasis (p. 1)

Forest Hydrology & Watershed Management Emphasis (p. 1)

**Total Hours** 93-112

## A. General Forestry Emphasis

Code	Title	Hours
Select 18 credits of advisor approved electives		18
<b>Total Hours</b>		<b>18</b>

## B. Forest Operations Emphasis

Code	Title	Hours
FOR 4510	Low Volume Forest Roads	2
FOR 4520	Steep Slope Logging Systems	2
FSP 1010	Introduction to Forest and Sustainable Products	2
FSP 3010	Properties of Forest and Sustainable Products	3
FSP 4440	Primary Forest Products Manufacturing	3
ACCT 2010	Introduction to Financial Accounting	3
<b>Total Hours</b>		<b>15</b>

## C. Forest Biology Emphasis

Code	Title	Hours
BIOL 1150 & 1150L	Cells and the Evolution of Life and Cells and the Evolution of Life Laboratory	4
BIOL 2130	Structure and Function Across the Tree of Life	4
CHEM 1120 & 1120L	General Chemistry II and General Chemistry II Laboratory	5
CHEM 2750 or CHEM 2770	Carbon Compounds or Organic Chemistry I	3
MATH 1160 or MATH 1170	Survey of Calculus or Calculus I	4
WLF 3700	Management and Communication of Scientific Data	3
Select two courses from the following list:		6

BIOL 3140	Ecology and Population Biology	
FOR 4101	Forest Production Ecology	
FOR 4130	Mountain Ecology	
GEOG 3130	Global Climate Change	
GEOG 4100	Biogeography	
GEOG 4300	Climate Change Ecology	
REM 4400	Restoration Ecology	
WLF 4400	Conservation Biology	

**Total Hours** 29

## D. Forest Hydrology & Watershed Management Emphasis

Code	Title	Hours
GEOL 1110	Physical Geology for Science Majors	3
MATH 1170	Calculus I	4
MATH 1750	Calculus II	4
PHYS 1112 & 1112L	General Physics II and General Physics II Lab	4
STAT 3010	Probability and Statistics	3
Select one course from the following:		3-4

FISH 4150	Limnology	
FISH 4300	Riparian and River Ecology	
Select two courses from the following:		6
GEOG 3850	Foundations of GIS	
GEOG 4240	Hydrologic Applications of GIS and Remote Sensing	
GEOG 4750	Intermediate Geographic Information Systems	
GEOG 4790	GIS Programming	
Select two courses from the following:		6
GEOG 3010	Meteorology	
GEOL 3090	Ground Water Hydrology	
HYDR 4090	Quantitative Hydrogeology	
SOIL 4150	Soil and Environmental Physics	
SOIL 4500	Environmental Hydrology	
SOIL 4520	Environmental Water Quality	

**Total Hours 33-34**

**Courses to total 120 credits for this degree**

<sup>1</sup> A SAT math score of 610 or above, or ACT math score of 27 or above, can be used to satisfy the MATH 1143 requirement.

Fall Term 1	Hours
BIOL 1140 Organisms and Environments	4
ENGL 1101 Writing and Rhetoric I	3
MATH 1143 Precalculus I: Algebra	3
NR 1010 Exploring Natural Resources (General Education Requirement)	2
Humanistic and Artistic Ways of Knowing Course	3
<b>Hours</b>	<b>15</b>

Spring Term 1	Hours
ENGL 1102 Writing and Rhetoric II	3
FOR 1400 Introduction to Forest Management	2
Oral Communication Course	3
(CHEM 1101 AND CHEM 1101L) OR (CHEM 1111 AND CHEM 1111L)	4
FIRE 3326 OR FIRE 1144	3
<b>Hours</b>	<b>15</b>

Fall Term 2	Hours
SOIL 2050 The Soil Ecosystem	3
SOIL 2060 The Soil Ecosystem Lab	1
FOR 2210 Forest Mensuration I	3
FOR 2500 Forest Operations I	2
STAT 2510 Statistical Methods	3
(PHYS 1000 AND PHYS 1000L) OR (PHYS 1111 AND PHYS 1111L)	4
<b>Hours</b>	<b>16</b>

Spring Term 2	Hours
ECON 2202 Principles of Microeconomics	3
FOR 2100 Principles of Ecology	3
FOR 2220 Forest Mensuration II	3
NRS 2350 Society and Natural Resources	3
American Experience Course	3
Elective Course	1
<b>Hours</b>	<b>16</b>

Fall Term 3	Hours
FOR 2110 Forest Biology & Dendrology	3
FOR 3700 Fundamentals of Geomatics	3
International Course	3
Emphasis Area, Major Elective Course	3

Emphasis Area, Major Elective Course	3
<b>Hours</b>	<b>15</b>
<b>Spring Term 3</b>	
FOR 3100 Terrestrial Ecosystem Ecology	3
FOR 3400 Forest Regeneration	3
NRS 3830 Natural Resource and Ecosystem Service Economics	3
Humanistic and Artistic Ways of Knowing Course	3
Emphasis Area, Major Elective Course	3
<b>Hours</b>	<b>15</b>
<b>Fall Term 4</b>	
FOR 4300 Business of Forestry	2
FOR 4400 Silviculture Principles and Practices	4
FOR 4500 Forest Operations II	2
Emphasis Area, Major Elective Course	3
Emphasis Area, Major Elective Course	3
<b>Hours</b>	<b>14</b>
<b>Spring Term 4</b>	
ENT 4690 Introduction to Forest Insects	2
FOR 4150 Forest and Plant Pathology	2
FOR 4310 Forest Policy and Administration	2
FOR 4600 Watershed Science and Management	3
Emphasis Area, Major Elective Course	3
Elective Course	2
<b>Hours</b>	<b>14</b>
<b>Total Hours</b>	<b>120</b>

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.