



University of Idaho

Department of Forest,  
Rangeland and Fire Sciences

# Forestry

Recommended 4-Year Plan | 2023/2024

## Become a Leader in Forestry

Building off a 100-year tradition of training leaders in forest science and management, our Forestry program (accredited by the Society of American Foresters) is one of the top-ranked programs for quality and value in the nation. Our students work directly with world-class faculty in the laboratory and unique outdoor settings throughout their college careers. Our forestry courses emphasize a “hands-on” approach, bridging learning opportunities in the classroom with direct experience in the field. Whether out on the University of Idaho’s 12,000+ acre Experimental Forest, in the Pitkin Forest Nursery, or at the McCall Field Campus along Payette Lake, our students experience the diverse landscapes of Idaho and the Inland Northwest. As a Forestry major, you will focus on forest ecosystems and learn about forest science and management, with a strong focus on forest operations and sustainable forest management. Our graduates are prepared to balance the many demands placed on the nation’s forests.

### FRESHMAN

#### FALL

COURSE		CREDITS
NR 101-Exploring Natural Resources		2
CHEM 101/101L -Intro to Chemistry & Lab <b>OR</b> CHEM 111/111L* -General Chemistry I & Lab <small>(CHEM 050, 101, MATH 143, 160, or 170; or sufficient test score)</small>	Science	4
ENGL 101*-Writing & Rhetoric I <small>(sufficient test score)</small>	Writ Comm	3
MATH 108-Intermediate Algebra		3
General Education Requirement	Humanities	3

**TOTAL 15**

#### SPRING

COURSE		CREDITS
FIRE 144 -Wildland Fire Management <b>OR</b> FIRE 326*-Fire Ecology <small>(FOR 221 or WLF 220)</small>		3
FOR 102 -Intro to Forest Management		2
BIOL 114 -Organisms & Environments	Science	4
ENGL 102*-Writing & Rhetoric II <small>(ENGL 101)</small>	Writ Comm	3
MATH 143 -College Algebra <small>(MATH 108)</small>	Math	3

**TOTAL 15**

### SOPHOMORE

#### FALL

COURSE		CREDITS
FOR 220 -Forest Biology & Dendrology <small>(BIOL 114 or PLSC 205)</small>		3
FOR 274 -Forest Measurement & Inventory <small>(MATH 143 &amp; 144)</small>		3
NRS 235 -Society & Natural Resources	Social Sci	3
MATH 144+ -Analytical Trigonometry <small>(MATH 143 or 170)</small>		1
STAT 251* -Statistical Methods <small>(MATH 108, 143, 160, or 170; or sufficient score)</small>		3
General Education Requirement <b>OR</b> AGED 101 -Verbal Comm in Ag, Food & NR	Oral Comm	3

**TOTAL 16**

#### SPRING

COURSE		CREDITS
FOR 221/WLF 220 -Principles of Ecology <small>(BIOL 102/102L, 114, 115, or PLSC 205)</small>		3
FOR 275 -Forestry Resource Sampling <small>(FOR 274 &amp; STAT 251)</small>		2
PHYS 100/100L -Fundamentals of Physics & Lab <b>OR</b> PHYS 111/111L -General Physics I & Lab <small>(MATH 143)</small>		4
SOIL 205 & 206 -The Soil Ecosystem & Lab <small>(CHEM 101 or 111)</small>		4
General Education Requirement	Humanities	3

**TOTAL 16**

# FORESTRY

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## JUNIOR

### FALL

COURSE	CREDITS
FOR 324 -Forest Regeneration (FOR 274)	3
FOR 375 -Fundamentals of Geomatics (college algebra)	3
ECON 202* -Principles of Microeconomics	3
General Education Requirement	American Diversity 3
Emphasis Area Course (300-400)	3

**TOTAL 15**

### SPRING

COURSE	CREDITS
FOR 330 -Terrestrial Ecosystem Ecology <small>(MATH 143 or 160; PHYS 100/100L or 111/111L; &amp; FOR 221 or WLF 220 or BIOL 213 or PLSC 102)</small>	4
NRS 383 -NR & Ecosystem Service Economics <small>(NRS 235; ECON 202 or 272; &amp; MATH 143)</small>	3
General Education Requirement	International 3
Free Elective (300-400)	3
Emphasis Area Course (300-400)	3

**TOTAL 16**

## SENIOR

### FALL

COURSE	CREDITS
FOR 424 -Silvicultural Principles & Practices <small>(Sr standing; FOR 220, 274, 324, &amp; 330)</small>	4
FOR 430 -Forest Operations <small>(FOR 102, PHYS 100/100L or 111/111L &amp; MATH 144)</small>	3
ENT 469+ -Intro to Forest Insects <small>(FOR 221 or WLF 220)</small>	2
Emphasis Area Course (300-400)	3
Emphasis Area Course (300-400)	3

**TOTAL 15**

### SPRING

COURSE	CREDITS
FOR 462 -Watershed Science & Management <small>(MATH 143, PHYS 100/100L, 111/111L, or HS equivalent)</small>	3
FOR 468 -Forest & Plant Pathology (FOR 220 & 330)	2
FOR 484 -Forest Policy & Administration <small>(Jr standing &amp; Rec: FOR 235)</small>	2
FOR 493 -Business of Forestry (Jr or Sr standing)	2
Emphasis Area Course (300-400)	3
Emphasis Area Course (300-400)	3

**TOTAL 15**

## EMPHASIS AREAS:

### A. GENERAL FORESTRY - 18 CREDITS

Select 18 credits of electives at or above the 300-level.

### B. FOREST OPERATIONS - 15 CREDITS

ACCT 201 -Intro to Financial Accounting  
 FOR 431 -Low Volume Forest Roads  
 FOR 436 -Cable Systems  
 FSP 100 -Intro to Forest and Sustainable Products  
 FSP 321 -Properties of Forest and Sustainable Products  
 FSP 444 -Primary Forest Products Manufacturing

### C. FOREST BIOLOGY - 29 CREDITS

Please note that this Emphasis Area included coursework that totals 29 credits. Additional courses may be required in certain semesters to reach this total.

BIOL 115/115L -Cells and the Evolution of Life with Lab  
 BIOL 213 -Structure and Function Across the Tree of Life  
 CHEM 112/112L -General Chemistry II with Lab  
 CHEM 275 **OR** 277 -Carbon Compounds **OR** Organic Chemistry I  
 MATH 160 **OR** 170 -Survey of Calculus **OR** Calculus I  
 WLF 370 -Management and Communication of Scientific Data

Select two courses from the following list:  
 BIOL 314 -Ecology and Population Ecology  
 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 Ecology

### D. FOREST HYDROLOGY & WATERSHED MANAGEMENT - 33-34 CREDITS

Please note that this Emphasis Area included coursework that totals 33-34 credits. Additional courses may be required in certain semesters to reach this total.

GEOL 111 -Physical Geology for Science Majors  
 MATH 170 -Calculus I  
 MATH 175 -Calculus II  
 PHYS 112/112L -General Physics II with Lab  
 STAT 301 -Probability & Statistics

Select one courses from the following list:  
 FISH 415 -Limnology  
 FISH 430 -Riparian & River Ecology

Select two courses from the following list:  
 GEOG 385 -Foundations of GIS  
 GEOG 424 -Hydrologic Applications of GIS & Remote Sensing  
 GEOG 475 -Intermediate GIS  
 GEOG 479 -GIS Programming

Select two courses from the following list:  
 GEOG 301 -Meteorology  
 GEOL 309 -Ground Water Hydrology  
 HYDR 409 -Quantitative Hydrogeology  
 SOIL 415 -Soil & Environmental Physics  
 SOIL 450 -Environmental Hydrology  
 SOIL 452 -Environmental Water Quality

- This academic plan is intended as a guideline only and does not replace academic advising.
- 123 credits minimum are required for a B.S. in Forestry.
- Minimum of 36 upper-division credits required to graduate.
- See course catalog and department website for complete degree requirements and additional information.
- \* -Both Online & In-Person options are offered
- + -Online only offered

Ready to Get Started?  
 Email [cnradvising@uidaho.edu](mailto:cnradvising@uidaho.edu)

