



University of Idaho

Department of Forest,  
Rangeland and Fire Sciences

# Fire Ecology & Management

Recommended 4-Year Plan | 2023/2024

## The First of its Kind

With one of the most diverse and experienced faculty in the country, our B.S. in Fire Ecology and Management was the first of its kind in the nation. With an emphasis on direct and “hands-on” learning, our program will provide you with an understanding of fire’s holistic role in the environment and help you develop the understanding and skills to solve complex problems involved in the management of natural resources. Accredited by the Association for Fire Ecology, we offer more courses focused on wildland and prescribed fire than any other natural resources program in the country, and we have a variety of facilities that will prepare you to be a leader in the fire ecology and management field. Our students benefit from access to the nearby UI Experimental Forest, where they actively participate in prescribed burning classes and explore active fire management in a real-world setting. Service-learning field trips organized by The Nature Conservancy, Tribal Nations, and regional land management agencies are open to qualified students, and undergraduate courses have access to the Idaho Fire Institute of Research and Education (IFIRE) – the only university-housed wildfire combustion laboratory in the United States.

### FRESHMAN

FRESHMAN		FALL		SPRING
COURSE		CREDITS		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 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**

FIRE 144*-Wildland Fire Management		3		
ENGL 102*-Writing & Rhetoric II <small>(ENGL 101)</small>	Writ Comm	3		
MATH 143-College Algebra <small>(MATH 108)</small> <b>OR</b> MATH 160-Survey of Calculus	Math	3-4		
PHYS 100/100L -Fundamentals of Physics & Lab		4		
General Education Requirement	Humanities	3		

**TOTAL 16-17**

### SOPHOMORE

SOPHOMORE		FALL		SPRING
COURSE		CREDITS		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		
BIOL 114 -Organisms & Environments <b>OR</b> BIOL 115/115L -Cells & the Evolution of Life & Lab <small>(CHEM 101/101L or 111/111L)</small>	Science	4		
SOIL 205 & 206-The Soil Ecosystem & Lab <small>(CHEM 101 or 111)</small>		4		

**TOTAL 17**

FOR 221/WLF 220-Principles of Ecology <small>(BIOL 102/102L, 114, 115, or PLSC 205)</small>		3		
REM 252 -Wildland Plant Identification		2		
ECON 202*-Principles of Microeconomics	Social Sci	3		
STAT 251*-Statistical Methods <small>(MATH 108, 143, 160, or 170; or sufficient score)</small>		3		
Free Elective		1		
General Education Requirement	International	3		

**TOTAL 15**

# FIRE ECOLOGY & MANAGEMENT

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### JUNIOR

#### FALL

COURSE	CREDITS
FIRE 326* -Fire Ecology (FOR 221/WLF 220)	3
FOR 375 -Fundamentals of Geomatics (college algebra)	3
FIRE 454+ -Air Quality, Pollution, & Smoke, GEOG 301 -Meteorology, <b>OR</b> (GEOG 100/100L, PHYS 100/100L, 111/111L, or 211/211L; & MATH 143), GEOG 313 -Global Climate Change	3
REM 410 -Principles of Vegetation Monitoring & Measurement (STAT 251)	2
ENGL 313* -Business Writing (ENGL 102 & Soph standing) <b>OR</b> ENGL 317* -Technical Writing (ENGL 102 & Soph standing) Oral Comm	3

**TOTAL 14**

#### SPRING

COURSE	CREDITS
FIRE 450* -Fire Behavior (FOR 326 & 433; & PHYS 100/100L or 111/111L)	2
FIRE 451 -Fuels Inventory & Management (FOR 375, REM 144 & FOR 274, or REM 411)	3
FOR 330 -Terrestrial Ecosystem Ecology, (MATH 143 or 160; PHYS 100/100L or 111/111L; & FOR 221 or WLF 220 or BIOL 213 or PLSC 102), FOR 424 -Silvicultural Principles & Practices, <b>OR</b> (Sr standing; FOR 220, 274, 324, & 330)	3-4
REM 456* -Integrated Rangeland Management (ENGL 313 or 317)	
Free Elective	3
Free Elective	3

**TOTAL 14-15**

### SENIOR

#### FALL

COURSE	CREDITS
FIRE 427 -Prescribed Burning Lab (REM 144, FOR 326, Sr standing, & permission)	3
REM 459+ -Rangeland Ecology Recommended: (FOR 221 or WLF 220, ENGL 317; REM 410 or FOR 274)	3
Free Elective	3
Free Elective	3
Free Elective	3

**TOTAL 15**

#### SPRING

COURSE	CREDITS
FIRE 435 -Remote Sensing of Fire (FOR 375) <b>OR</b> REM 429* -Landscape Ecology (FOR 221 or WLF 220)	3
FIRE 407+ -GIS Application in Fire Ecology & Management (FOR 375 or GEOG 395)	3
FOR 484 -Forest Policy & Administration (Jr standing & FOR 235)	2
General Education Requirement American Diversity	3
Free Elective	3
Free Elective	3

**TOTAL 17**

- This academic plan is intended as a guideline only and does not replace academic advising.
- See course catalog and department website for complete degree requirements and additional information.

- 122 credits minimum are required for a B.S. in Fire Ecology & Management.
- Minimum of 36 upper-division credits required to graduate.
- \* -Both Online & In-Person options are offered
- + -Online only offered

**Ready to Get Started?**

Email [cnradvising@uidaho.edu](mailto:cnradvising@uidaho.edu)



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