



University of Idaho

Department of Forest,
Rangeland and Fire Sciences

Fire Ecology & Management

Recommended 4-Year Plan | 2022/2023

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

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

TOTAL 15

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

TOTAL 16-17

SOPHOMORE

COURSE		FALL	CREDITS
BIOL 114 - Organisms & Environments OR BIOL 115/115L - Cells & the Evolution of Life & Lab <small>(CHEM 101/101L or 111/111L)</small>	Science	FALL	4
NRS 235 - Society & Natural Resources	Social Sci	FALL	3
FOR 274 - Forest Measurement & Inventory <small>(MATH 143 & 144)</small>		FALL	3
FOR 220 - Forest Biology & Dendrology <small>(BIOL 114 or PLSC 205)</small>		FALL	3
SOIL 205 & 206 - The Soil Ecosystem & Lab <small>(CHEM 101 or 111)</small>		FALL	4

TOTAL 17

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

TOTAL 15

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JUNIOR

FALL		CREDITS
COURSE		
ENGL 313* - Business Writing (ENGL 102 & Soph standing)	Oral Comm	3
OR ENGL 317* - Technical Writing (ENGL 102 & Soph standing)		
FOR 326* - Fire Ecology (FOR 221/WLF 220)		3
FOR 375 - Fundamentals of Geomatics (college algebra)		3
FOR 454+ - Air Quality, Pollution, & Smoke, GEOG 301 - Meteorology, OR (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

TOTAL 14

SPRING

SPRING		CREDITS
COURSE		
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, OR (Sn standing; FOR 220, 274, 324, & 330)		3-4
REM 456* - Integrated Rangeland Management (ENGL 313 or 317)		
FOR 451 - Fuels Inventory & Management (FOR 375, REM 144 & FOR 274, or REM 411)		3
FOR 450* - Fire Behavior (FOR 326 & 433; & PHYS 100/100L or 111/111L)		2
NRS 383 - NR & Ecosystem Service Economics (NRS 235; ECON 202 or 272; & MATH 143)		3
Free Elective		3

TOTAL 14-15

SENIOR

FALL		CREDITS
COURSE		
FOR 427 - Prescribed Burning Lab (REM 144, FOR 326, Sn 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

SPRING		CREDITS
COURSE		
FOR 435 - Remote Sensing of Fire (FOR 375) OR REM 429* - Landscape Ecology (FOR 221 or WLF 220)		3
FOR 484 - Forest Policy & Administration (Jr standing & FOR 235)		2
REM 407+ - GIS Application in Fire Ecology & Management (FOR 375 or GEOG 385)		2
General Education Requirement	American Diversity	3
Free Elective		3
Free Elective		3

TOTAL 16

- 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

