

# FIRE ECOLOGY AND MANAGEMENT (B.S.FIRE.ECOL.MGMT.)

Students must have a minimum cumulative grade-point average of 2.00 in FOR and REM courses to qualify for the B.S.Fire.Ecol.Mgmt.

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
ECON 202	Principles of Microeconomics	3
ENGL 313 or ENGL 317	Business Writing Technical Writing II	3
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
FIRE 326	Fire Ecology	3
FOR 375	Fundamentals of Geomatics	3
FIRE 427	Prescribed Burning Lab	3
FIRE 435	Remote Sensing of Fire	3
FIRE 450	Fire Behavior	2
FIRE 451	Fuels Inventory and Monitoring	3
FOR 484	Forest Policy and Administration	2
MATH 143 or MATH 160	College Algebra Survey of Calculus	3-4
NR 101	Exploring Natural Resources	2
PHYS 100 & 100L	Fundamentals of Physics and Fundamentals of Physics Lab	4
FIRE 144	Wildland Fire Management	3
REM 252	Wildland Plant Identification	2
FIRE 407	GIS Application in Fire Ecology and Management	3
REM 410	Principles of Vegetation Monitoring and Measurement	3
REM 459	Rangeland Ecology	3
SOIL 205	The Soil Ecosystem	3
SOIL 206	The Soil Ecosystem Lab	1
STAT 251	Statistical Methods	3
Select one of the following:		3-4
FOR 330	Terrestrial Ecosystem Ecology	
FOR 424	Silviculture Principles and Practices	
REM 456	Integrated Rangeland Management	
Select one of the following:		4
BIOL 114	Organisms and Environments	
BIOL 115 & 115L	Cells and the Evolution of Life and Cells and the Evolution of Life Laboratory	
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:		3
FIRE 454 or GEOL 454	Air Quality, Pollution, and Smoke Air Quality, Pollution, and Smoke	
GEOG 301	Meteorology	

**Total Hours 81-83**

## Courses to total 120 credits for this degree

Fall Term 1	Hours
ENGL 101 Writing and Rhetoric I	3
MATH 143 College Algebra	3
NR 101 Exploring Natural Resources	2
PHYS 100 Fundamentals of Physics	3
PHYS 100L Fundamentals of Physics Lab	1
Oral Communication Course	3
<b>Hours</b>	<b>15</b>
<b>Spring Term 1</b>	
ENGL 102 Writing and Rhetoric II	3
FIRE 144 Wildland Fire Management	3
Humanistic and Artistic Ways of Knowing Course	3
Elective Course	3
(CHEM 101 AND CHEM 101L) OR (CHEM 111 AND CHEM 111L)	4
<b>Hours</b>	<b>16</b>
<b>Fall Term 2</b>	
FOR 235 Society and Natural Resources	3
FOR 274 Forest Measurement and Inventory	3
SOIL 205 The Soil Ecosystem	3
SOIL 206 The Soil Ecosystem Lab	1
(BIOL 115 AND BIOL 115L)	4
<b>Hours</b>	<b>14</b>
<b>Spring Term 2</b>	
ECON 202 Principles of Microeconomics	3
FOR 220 Forest Biology & Dendrology	3
STAT 251 Statistical Methods	3
Elective Course	3
FOR 221 OR WLF 220	3
<b>Hours</b>	<b>15</b>
<b>Fall Term 3</b>	
FIRE 326 Fire Ecology	3
FOR 375 Fundamentals of Geomatics	3
Elective Course	3
ENGL 313 OR ENGL 317	3
FIRE 454 OR GEOG 301	3
<b>Hours</b>	<b>15</b>
<b>Spring Term 3</b>	
FIRE 450 Fire Behavior	2
FIRE 451 Fuels Inventory and Monitoring	3
FOR 330 OR FOR 424 OR REM 456	3
Humanistic and Artistic Ways of Knowing Course	3
Elective Course	3
<b>Hours</b>	<b>14</b>
<b>Fall Term 4</b>	
FIRE 427 Prescribed Burning Lab	3
REM 459 Rangeland Ecology	3
American Diversity Course	3
International Course	3
Elective Course	3
Elective Course	1
<b>Hours</b>	<b>16</b>

**Spring Term 4**

FOR 484	Forest Policy and Administration	2
FIRE 407	GIS Application in Fire Ecology and Management	3
REM 252	Wildland Plant Identification	2
REM 410	Principles of Vegetation Monitoring and Measurement	3
Elective Course		3
Elective Course		1
FIRE 435 OR REM 429		3
<b>Hours</b>		<b>17</b>
<b>Total Hours</b>		<b>122</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 fuel inventory and describe fire behavior and ecological effects while using appropriate metrics and technology to make observations at multiple temporal and spatial scales, and then interpreting those observations and using them to develop scientific information for management decisions.
2. Graduates will be able to forecast potential outcomes of fire management decisions over time and space using models and other prediction tools, while considering risks and uncertainty.
3. Graduates will be able to demonstrate scientific literacy through proficiently accessing, evaluating, synthesizing, and appropriately using scientific literature, technologies, and expert advice in addressing complex natural resource management issues and applying scientific knowledge to fire management decisions.
4. Graduates will be able to demonstrate skills in working with teams of people, including effective leadership of groups working toward the common interest goal of addressing a complex resource management issue.
5. Graduates will be able to communicate effectively by listening actively, formulating, articulating, and explaining ideas clearly using oral and written techniques.