

# FOREST ECOSYSTEMS OPTION

This option is offered within the following major(s):

- Natural Resources - College of Forestry (<http://catalog.oregonstate.edu/college-departments/forestry/forest-ecosystems-society/natural-resources-bs-hbs/>)

This option will assist students in understanding the nature of forest ecosystems and the processes by which they function. Course work includes an understanding of the multiple resources and values associated with forest ecosystems and some of the techniques involved in managing them.

## Option Code: 673

Minimum of 40 credits with 20 upper division credits required.

Code	Title	Credits
<b>Measurements (4-5 credits)</b>		
Select one course from the following:		4-5
BI 375	FIELD METHODS IN ECOLOGICAL RESTORATION	
BOT 440	FIELD METHODS IN PLANT ECOLOGY	
FOR 321	FOREST MENSURATION	
<b>Ecological Foundations (23 credits)</b>		
FES 341	FOREST ECOLOGY	3
FES 412	FOREST ENTOMOLOGY	3
FES 440	WILDLAND FIRE ECOLOGY	3
FES 452/FW 452	BIODIVERSITY CONSERVATION IN MANAGED FORESTS	3
FOR 413/BOT 413	FOREST PATHOLOGY	3
FOR 436	WILDLAND FIRE SCIENCE AND MANAGEMENT	4
FOR 441	SILVICULTURE PRINCIPLES	4
<b>Ecology Breadth (6-9 credits)</b>		
Select two courses from the following:		6-9
BOT 321	PLANT SYSTEMATICS	
BOT 341	PLANT ECOLOGY	
BOT 425	FLORA OF THE PACIFIC NORTHWEST	
FE 434	FOREST WATERSHED MANAGEMENT	
FES 445/FW 445	ECOLOGICAL RESTORATION	
FES 477/NR 477	*AGROFORESTRY	
FW 251	PRINCIPLES OF FISH AND WILDLIFE CONSERVATION	
FW 311	ORNITHOLOGY	
FW 315	ICHTHYOLOGY	
FW 317	MAMMALOLOGY	
FW 320	INTRODUCTORY POPULATION DYNAMICS	
FW 321	APPLIED COMMUNITY AND ECOSYSTEM ECOLOGY	
FW 451	AVIAN CONSERVATION AND MANAGEMENT	
FW 456	FRESHWATER ECOLOGY AND CONSERVATION	
FW 458	MAMMAL CONSERVATION AND MANAGEMENT	
FW 473	FISH ECOLOGY	
FW 481	WILDLIFE ECOLOGY	
NR 325	SCIENTIFIC METHODS FOR ANALYZING NATURAL RESOURCE PROBLEMS	
RNG 351	RANGE ECOLOGY I-GRASSLANDS	
RNG 352	RANGE ECOLOGY II-SHRUBLANDS	
RNG 455	RIPARIAN ECOHYDROLOGY AND MANAGEMENT	
SOIL 366	ECOSYSTEMS OF WILDLAND SOILS	
or SOIL 388	SOIL SYSTEMS AND PLANT GROWTH	
or SOIL 466	SOIL MORPHOLOGY AND CLASSIFICATION	

Z 349	*BIODIVERSITY: CAUSES, CONSEQUENCES, AND CONSERVATION	
Z 473	HERPETOLOGY	
<b>Technical Electives (8 credits)</b>		
Select two courses from the following:		8
FE 208	FOREST SURVEYING	
FE 209	FOREST PHOTOGRAMMETRY AND REMOTE SENSING	
FE 370	HARVESTING OPERATIONS	
FE 444	FOREST REMOTE SENSING AND PHOTOGRAMMETRY	
FES 447	ARBORICULTURE	
GEOG 201	*FOUNDATIONS OF GEOSPATIAL SCIENCE AND GIS	
GEOG 360	GISCIENCE I: GEOGRAPHIC INFORMATION SYSTEMS AND THEORY	
ST 351	INTRODUCTION TO STATISTICAL METHODS	
or ST 352	INTRODUCTION TO STATISTICAL METHODS	
Total Credits		41-45

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Baccalaureate Core Course (BCC)

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