

# NATURAL RESOURCES TECHNOLOGY: FOREST RESOURCES - AAS DEGREE

## Overview

See Department website and program contacts here (<https://www.mhcc.edu/education-options/degrees-certificates/natural-resources-technology/forest-resources/index/>)

The **Natural Resources Technology: Forest Resources (AAS) degree** is designed for students seeking careers in forestry, natural resource management, conservation, and environmental field operations. The curriculum combines forestry science with hands-on technical training to prepare students for employment in a variety of outdoor and natural resource settings.

Coursework includes topics such as **reforestation, mapping, timber appraisal, land surveying, stream surveys, wildlife habitat enhancement, wildfire suppression, and outdoor recreation management**. Students develop practical field skills through outdoor laboratory experiences and applied learning activities.

The Forest Resources program is workforce-focused and prepares students for careers with local, state, and federal agencies, parks departments, forest management organizations, and private industry involved in forestry and natural resource management.

The Natural Resources Technology: Forest Resources program is accredited by the Society of American Foresters (SAF) (<https://forestry.org/>) under its Forestry standards.

Students are encouraged to work with an advisor (<https://www.mhcc.edu/student-resources/academic-advising/>) to ensure appropriate course selection and program planning based on their educational background and career goals.

### Refer to the tabs above for additional information about:

- **Education Plan** – provides a sample term-by-term sequence of courses
- **Career Info** – includes information on potential occupations, employment trends, and earnings

## Program Learning Objectives

At the completion of this program, students should be able to:

- Perform relevant field tasks required of natural resource technicians
- Use a broad range of technological tools to research, document, map, measure, record and analyze data relevant to natural resources
- Demonstrate a practical understanding of Pacific Northwest forest ecosystems
- Demonstrate knowledge of social influences on ecosystem management
- Demonstrate professional skills needed for successful job performance

## Education Plan

This sample Education Plan illustrates one possible course sequence. Students should consult an advisor (<https://www.mhcc.edu/student-resources/academic-advising/>) to create a personalized plan.

Selected courses may be transferred to several four-year institutions in appropriate bachelor's degree programs. Check with the program adviser for current information. Note: Students who placed into MTH060 Beginning Algebra I must complete it during their first term in the program.

**General education courses (such as math, writing, health, etc.) can be taken during any term, or before starting the program.**

### First Quarter

Fall		Credits
F111	Introduction to Natural Resources	3
F141	Tree and Shrub Identification (Dendrology)	3
NR160	Wildland Fire	3
NR150	Career Development in Natural Resources	1
Select one of the following:		3
HPE285OL	Wilderness Survival (recommended)	
HPE295	Health and Fitness for Life	
other Health / Physical Education course		
<b>Credits</b>		<b>13</b>

### Second Quarter

Winter		
FT122	Forest Measurements I	5
FW251	Principles of Wildlife Conservation	3
MTH065	Beginning Algebra II (or higher, excluding MTH098) <sup>2</sup>	4
WR121Z	Composition I	4
BT210ZEA	Excel - Level I (if needed)	0-1
<b>Credits</b>		<b>16-17</b>

### Third Quarter

Spring		
FT221	Aerial Photo Interpretation, GPS and sUAS	4
MTH084	Applied Trigonometry with Modeling <sup>2</sup>	1
NR140	Introduction to Forest Soils	3
NR144	Forest Insects and Diseases	3
NR230	Forest Botany	3
<b>Credits</b>		<b>14</b>

### Fourth Quarter

Summer		
Select a course or combination of courses to complete a minimum of 2 credits:		2
WE280NRB	Co-op Ed: Natural Resources	
or	or Coop Ed - Natural Resources	
WE280NRA	or Co-op Ed: Natural Resources	
or	or Co-op Ed: Natural Resources	
WE280NRF		
or		
WE280NRL		
<b>Credits</b>		<b>2</b>

**Fifth Quarter****Fall**

F200	Introduction to Forest Surveying	4
F240	Natural Resources Ecology	4
FT222	Forest Measurements II	4
WR227Z	Technical Writing	4

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**Credits** **16**

**Sixth Quarter****Winter**

FT228	Introduction to Geographic Information Systems	3
NR212	Current Issues/Forest Resources	1
NR242	Watershed Processes	3
NR244	Applied Silviculture I: Reforestation	3
Human Relations requirement ( <a href="https://catalog.mhcc.edu/degree-certificate-requirements/aas/#human">https://catalog.mhcc.edu/degree-certificate-requirements/aas/#human</a> ) <sup>3</sup>		3-4

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**Credits** **13-14**

**Seventh Quarter****Spring**

FT235	Outdoor Recreation	3
NR238	Timber Harvesting and Products	5
NR246	Applied Silviculture II: Forest Stand Dynamics	3
Related Elective (p. 2)		6-8

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**Credits** **17-19**

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**Total Credits** **91-95**

<sup>1</sup> Students are expected to use Excel spreadsheets in their NRT courses. Those unfamiliar with spreadsheets are advised to enroll in an Excel course before first or second quarter.

<sup>2</sup> Successful completion of MTH095 Intermediate Algebra with Right Triangle Trigonometry or higher (excluding MTH098) will replace both MTH065 Beginning Algebra II and MTH084 Applied Trigonometry with Modeling

<sup>3</sup> PSY101 Psychology of Human Relations, HUM202 Ethics in the Workplace or BA285 Leadership and Human Relations are recommended. See adviser for transferability information.

**Related Electives to reach 90 credits, if needed:**

Code	Title	Credits
NR260	Field Projects	3
MTH095	Intermediate Algebra with Right Triangle Trigonometry (or higher)	5

**Modern Languages**

Any courses with the following prefixes: ANTH, BA, BI, BT, CH, CIS, COMM, EHS, ET, FW, G, GEOG, NR or SHS.

## Career Information

Explore potential careers related to this program, including typical job roles, employment trends, and projected growth. This information can help you better understand how your education may align with future career opportunities.

## Transfer Schools

- Oregon State University (<http://www.forestry.oregonstate.edu>)
- Humboldt State University (<https://www.humboldt.edu/>)
- University of Idaho (<http://www.uidaho.edu/>)