

# WOOD INNOVATION FOR SUSTAINABILITY, ASSOCIATE OF SCIENCE

Wood Innovation is a multidisciplinary program that prepares students to work with renewable, plant-based materials to solve challenging world problems. Students gain broad perspectives on current issues associated with the sustainable utilization of renewable materials, including global trade, business innovation, energy production, and environmental impacts.

This degree was designed to transfer to Oregon State University's College of Forestry. Other transfer options may be available, consult your advisor for details. Check out the Forestry/Natural Resources program website!

The forestry field is projected to have many career opportunities coming up in the next decade as many forestry and natural resources professionals retire in the next few years. Students who enjoy working outdoors and want to have a career that focuses on managing our valuable forest lands to conserve and protect resources, as well as produce valuable products for society, should consider this degree.

## GRADUATION REQUIREMENTS

Students must complete a minimum of 99 credit hours with a cumulative Grade Point Average (GPA) of 2.0 or better. All courses must be completed with a grade of 'C' or better. Twenty-four (24) credits must be completed at Southwestern before the degree is awarded.

Courses that are developmental in nature (designed to prepare students for college transfer courses) are not applicable to this degree.

Complete the graduation application process one term prior to the term of completion (e.g., spring term graduates must apply during winter term).

## PROGRAM STUDENT LEARNING OUTCOMES

Upon successful completion of this program, the student will be able to:

- Demonstrate ability to find, compile, analyze, and communicate technical information.
- Demonstrate basic skills in engineering, marketing, art and design, business management, forest biology, dendrology, chemistry, business acumen, physics, and spreadsheet applications.
- Demonstrate basic understanding of the complexity between renewable materials, business, aesthetics, and environmentalism.

## PRE-PROGRAM REQUIREMENTS

Math and writing placement are unique to each student and are determined during the admissions and intake advising process. Additional math or writing courses may be required prior to taking the math or writing program requirements in this degree.

Code	Title	Credits
ART191	Beginning Sculpture **	3

\*\*ART191 or ART192 must be taken as a pre-program requirement.

## PROGRAM GUIDE

Course	Title	Credits
<b>First Year</b>		
<b>Fall</b>		
BA250	Applied Entrepreneurship	3
CHEM221Z & CHEM227Z	General Chemistry I and General Chemistry I Laboratory	5
DRFT110	Computer Assisted Drafting I	3
ENGR111 or ENGR211	Intro to Engineering or Statics	3
F111	Introduction to Forestry	3
<b>Credits</b>		<b>17</b>
<b>Winter</b>		
BA169Z	Data Analysis Using Microsoft Excel	4
CHEM222Z & CHEM228Z	General Chemistry II and General Chemistry II Laboratory	5
F250	Forest Biology	4
WR121Z & WR121A	Composition I and Corequisite Support for WR121Z	5
<b>Credits</b>		<b>18</b>
<b>Spring</b>		
ART117	Basic Design III, Intro to 3D Design	4
CHEM223Z & CHEM229Z	General Chemistry III and General Chemistry III Laboratory	5
COMM111Z	Public Speaking	4
WR227Z	Technical Writing	4
<b>Credits</b>		<b>17</b>
<b>Second Year</b>		
<b>Fall</b>		
ART115	Basic Design I Intro to Elements of Art and Principles of Design	4
ART291	Sculpture	3
ECON201Z	Principles of Microeconomics	4
PH201 or PH211	General Physics I: Mechanics or General Physics with Calculus I	5
<b>Credits</b>		<b>16</b>
<b>Winter</b>		
ECON202Z	Principles of Macroeconomics	4
PH202 or PH212	General Physics II: Heat, Waves, Relativity or General Physics with Calculus II	5
Arts & Letters <sup>2*</sup>		3
Social Science <sup>1</sup>		3
<b>Credits</b>		<b>15</b>
<b>Spring</b>		
PH203 or PH213	Gen Physics III: Elect & Magnetism or General Physics with Calculus III	5
MTH251Z	Differential Calculus <sup>4</sup>	4
STAT243Z	Elementary Statistics I	4

Arts and Letters <sup>3*</sup>	3
<b>Credits</b>	<b>16</b>
<b>Total Credits</b>	<b>99</b>

<sup>1</sup> Social Science - SOC213 or ED258

This will fulfill Oregon State University's "Difference, Power, and Oppression" requirement.

<sup>2</sup> Arts and Letters - ART204, ART205, ART206, ENG104Z, ENG105Z, ENG108, MUS101, MUS201, MUS202, MUS203, MUS206, or PHL102.

This will fulfill Oregon State University's "Arts and Humanities: General" requirement.

<sup>3</sup> Arts and Letters - ENG109, HUM204, HUM205, or HUM206.

This will fulfill Oregon State University's "Arts and Humanities: Global" requirement.

<sup>4</sup> MTH251Z - MTH251Z or higher will satisfy this requirement, excluding STAT243Z and MTH244. Students who intend to declare WINS Science and Engineering at OSU are encouraged to complete MTH254 or higher.

\* Courses from <sup>2</sup>Arts and Letters and <sup>3</sup>Arts and Letters must come from different disciplines.