

# TRANSFER GUIDE FOR OREGON STATE UNIVERSITY

Major Offered At:

**CORVALLIS**

**Mt. Hood  
Community College**

## Wood Innovation for Sustainability Major with Science & Engineering Option

Wood Innovation students facilitate the creation of, manufacturing, and marketing of products made from renewable materials. Focus on science, technology, and engineering for working with wood products. Learn where wood products come from,

And test renewable materials to determine how they can be used in new and innovative ways. Learn in woodshops, labs, climate rooms, and earthquake testing lab. Careers in a variety of technical positions in the manufacturing setting.

## Your Bachelor's Degree (BS) in Wood Innovation



- A minimum of 180 credits are required for graduation; 60 must be upper division (300 and 400-level courses).
- A maximum of 135 credits earned at a community college may be applied toward a bachelor's degree at OSU.
- WINS students must complete at least six months of work experience related to their field.
- Only courses with letter prefixes and numbers above 100 are accepted.
- More info at: [forestry.oregonstate.edu/undergraduate-programs/rm/science-and-engineering](http://forestry.oregonstate.edu/undergraduate-programs/rm/science-and-engineering)

## Courses Required for Wood Innovation Major

WINS Core Requirements <i>Complete one course per category</i>	MHCC Course	OSU Course	Notes
General Chemistry I	CH 104 or 221	CH 121	Available online at OSU
General Chemistry II	CH 105 or 222	CH 122	Available online at OSU
Public Speaking Argument & Critical Discourse Interpersonal Communication	COMM 111Z COMM 114 COMM 218Z	COMM 111Z COMM 114 COMM 218Z	Available online at OSU Available online at OSU Available online at OSU
Forest Biology	F 240 or NR 230	FES 240	Available online at OSU
Introduction to Forestry	F 111	FOR 111	Available online at OSU
Computing Applications in Forestry	CIS 125SS	FOR 112	Available online at OSU
Writing in Business Technical Writing	BA 205 WR 227Z	WR 214 WR 227Z	Available online at OSU Available online at OSU
Wood Innovations for Sustainability		WSE 111	
Bio, Structure, and Utilization of Wood Plants		WSE 210	Available online at OSU
Woodturning with Science I		WSE 211	
Building Design Innovation with Wood		WSE 225	
Computer Aided Design of Wood Products		WSE 250	
Anatomy of Woody Plants		WSE 320	
Physical & Mechanical Properties of Wood		WSE 322	
Wood Products Business		WSE 453	
Intro to Wood Products Manufacturing		WSE 461	
Wood Products Field School		WSE 465	

## Courses Required for Science & Engineering Option

<b>Requirement</b> <i>Complete one course per category unless otherwise noted</i>	<b>MHCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
General Chemistry III with Lab	CH 106 or 223	CH 123	Available online at OSU
Intro to Microeconomics	EC 201	ECON 201	Available online at OSU
Differential Calculus	MTH 251	MTH 251	Available online at OSU
Integral Calculus	MTH 252	MTH 252	Available online at OSU
Vector Calculus	MTH 254	MTH 254	Available online at OSU
General Physics I with Lab	PH 201	PH 201	Available online at OSU
Calc-Based Physics I with Lab	PH 211	PH 211	Available online at OSU
General Physics II with Lab	PH 202	PH 202	Available online at OSU
Calc-Based Physics II with Lab	PH 212	PH 212	Available online at OSU
General Physics III with Lab	PH 203	PH 203	Available online at OSU
Calc-Based Physics III with Lab	PH 213	PH 213	Available online at OSU
Principles of Statistics	STAT 243Z	ST 243Z	Available online at OSU
Statistics for Engineers		ST 314	Available online at OSU
Intro to Statistical Methods		ST 351	Available online at OSU
Wood Chemistry		WSE 321	
Physical & Mech Properties of Wood Lab		WSE 324	
Timber Tectonics in the Digital Age		WSE 425	
Fundamentals of Engineering Mechanics		WSE 430	
Advanced Manufacturing I		WSE 462	
Advanced Manufacturing II		WSE 463	
Renewable Materials in Building Construction		WSE 471	
<b>Area of Concentration – 16 credits req'd.</b> Student selected courses. At least 12 credits must be upper-division.			

## General Education Courses (called the Baccalaureate Core)

- Complete one course in each Perspective category with no more than two in the same department.
- Full listing of MHCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-mount-hood-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-mount-hood-community-college)

<b>SKILLS COURSES</b>	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 251 WR 121Z. Required to transfer. Completed as part of major: WR 214 or 227Z Completed as part of major: COMM 111Z or 114 OR 218Z HPE 295 @ MHCC
<b>PERSPECTIVE COURSES</b>	Biological Science Physical Science Additional Biological or Physical Science Cultural Diversity Literature and the Arts Social Processes and Institutions Western Culture	Completed as part of major: FES 240 Completed as part of major: CH 122 Completed as part of major: WSE 210 Choose one course from Bacc Core link above Choose one course from Bacc Core link above Completed as part of major: EC 201 Choose one course from Bacc Core link above
<b>DPD COURSE</b>	Difference, Power, & Discrimination	Choose one course from Bacc Core link above
<b>SYNTHESIS COURSES</b>	Contemporary Global Issues Science, Technology, & Society	Upper division course, take through OSU Upper division course, take through OSU

## Advising Contacts

Academic advisors at your community college and OSU are available to answer your questions and assist you in creating a transfer plan. **See your community college advisor first and use this Transfer Guide to help you plan.** It is important to speak with your OSU academic advisor early on, and often, to ensure correct course selection and sequencing. See [visitosu.oregonstate.edu/visit-campus](https://visitosu.oregonstate.edu/visit-campus) to schedule your personalized visit.

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