

Major Offered At:

**CORVALLIS**

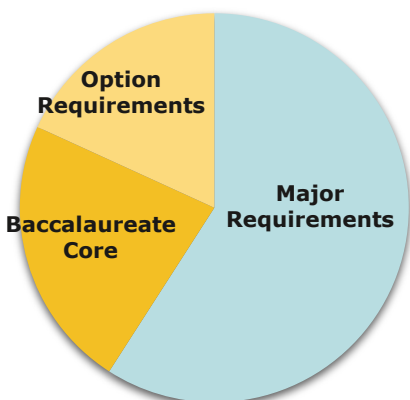
**Umpqua  
Community College**

## Renewable Materials Major with Science & Engineering Option

Renewable Materials 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 Renewable Materials



- 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.
- RM 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 Renewable Materials Major

RM Core Requirements	UCC Course	OSU Course	Notes
<i>Complete one course per category</i>			
General Chemistry I	CH 104 or CH 221	CH 121	Available online at OSU
General Chemistry II	CH 105 or CH 222	CH 122	Available online at OSU
Public Speaking	SP 111	COMM 111	Available online at OSU
Argument & Critical Discourse	SP 112	COMM 114	Available online at OSU
Forest Biology	FOR/NR 240	FES 240	Available online at OSU
Introduction to Forestry	FOR/NR 201	FOR 111	Available online at OSU
Computing Applications in Forestry	FOR/ENGR 112	FOR 112	Available online at OSU
English Composition	WR 121	WR 121	Available online at OSU
Writing in Business		WR 214	Available online at OSU
Technical Writing	WR 227	WR 327	Available online at OSU
Renewable Materials for a Green Planet		WSE 111	
Renewable Materials Technology & Utilization		WSE 210	
Principles of Architectural Design		WSE 225	
CAD: Computer Aided Design	ENGR 245	WSE 250	
Anatomy of Renewable Materials		WSE 320	
Chemistry of Renewable Materials		WSE 321	
Physical and Mechanical Properties of RN		WSE 322	
Renewable Materials Laboratory		WSE 324	
Forest Products Business		WSE 455	
Renewable Materials Manufacturing Exper.		WSE 465	

## Courses Required for Science & Engineering Option

<b>Requirement</b> <i>Complete one course per category unless otherwise noted</i>	<b>UCC Course</b>	<b>OSU Course</b>	<b>Notes</b>
Fundamentals of Accounting Accounting for Decision Making	BA 215	BA 215 BA 315	Available online at OSU Available online at OSU
Business Law Legal Environment of Business	BA 226	BA 230 BA 330	Available online at OSU Available online at OSU
General Chemistry III with Lab	CH 106 or CH 223	CH 123	Available online at OSU
Intro to Microeconomics	ECON 201	ECON 201	Available online at OSU
Intro to Macroeconomics	ECON 202	ECON 202	Available online at OSU
Intro to Industrial & Manufacturing Engr.		IE/MFGE 285	
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 Calc-Based Physics I with Lab	PH 201 PH 211	PH 201 PH 211	Available online at OSU
General Physics II with Lab Calc-Based Physics II with Lab	PH 202 PH 212	PH 202 PH 212	
General Physics III with Lab Calc-Based Physics III with Lab	PH 203 PH 213	PH 203 PH 213	
Statistics for Engineers	MTH 265	ST 314	Available online at OSU
Fundamentals of Engineering Mechanics		WSE 430	
Bio-Based Product Manufacturing		WSE 461	
Advanced Manufacturing		WSE 462	
Renewable Materials in Building Construction		WSE 471	
Bioenergy and Environmental Impact		WSE 473	
<b>Area of Concentration – 24 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 UCC courses that fulfill Bacc Core requirements: [admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college](https://admissions.oregonstate.edu/baccalaureate-core-course-equivalencies-umpqua-community-college)

<b>SKILLS COURSES</b>	Math Writing I Writing II Speech (Writing III) Fitness	Completed as part of major: MTH 251 WR 121. Required to transfer. Completed as part of major: WR 214 or 327 Completed as part of major: COMM 111 or 114 HPE 295 @ UCC
<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: ECON 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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