

COLLEGE OF FORESTRY

2021–2022 UNDERGRADUATE

ADVISING GUIDE

RENEWABLE MATERIALS



Oregon State
University





Academic Advising

The College of Forestry and the Department of Wood Science and Engineering are committed to helping students succeed. That includes assistance with identifying majors and minors, and understanding broader University rules and regulations. The Renewable Materials Academic Advisor and the COF Head Advisor are your first points of contact when you have questions.

This advising guide provides details of the Renewable Materials program not listed in the University Catalog, as well as helpful suggestions for your success as a student. Your advisor is a valuable resource for discussions about navigating your student experience, resources, and co-curricular experiences.

You should refer to your College of Forestry Undergraduate Handbook for detailed information about advising, including the rights and responsibilities inherent in the advisor/advisee relationship. The most current advising information, and appointment scheduling, is available online:

forestry.oregonstate.edu/student-services/advising

 <p>Autumn Granger Academic Advisor Renewable Materials Peavy 116 – J 541-737-9135 (office) 541-791-6733 (mobile) Autumn.Granger@oregonstate.edu</p>	 <p>Nicole Kent Head Advisor College of Forestry Peavy 116 - H 541-737-1592 (office) 541-224-7861 (mobile) Nicole.kent@oregonstate.edu</p>
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What:

You can expect your advising appointments to be 30 minutes of one-on-one time with your academic advisor. You and your advisor will both prepare in advance—reviewing your MyDegrees page, preparing questions, and looking ahead. During your appointment, you will review your progress, make plans for the upcoming term(s), discuss opportunities and resources pertinent to your goals, and track your progress toward graduation. While your advisor is here to assist and guide you, your educational choices are yours to make. We advise and you decide.

When:

COF students are required to meet with their academic advisor at least once per quarter, and are welcome to meet more often. It's always okay to call, email, or drop in with questions.

How:

The easiest way to schedule your advising appointment is using your advisor's online calendar:

forestry.oregonstate.edu/student-services/advising

B.S. in Renewable Materials

The sustainable economy of the future relies heavily on the use of natural materials for the products we use, the buildings we live in, and the energy we consume. You will help design the sustainable future by studying the science, business, manufacturing, aesthetics, and design of renewable materials. Renewable materials are quite diverse—including wood, bamboo, straw, hemp, cane, giant grasses, palm and many other plant based materials. Sustainably and efficiently meeting the demand for products and energy made from these materials requires innovative scientists, engineers, designers, artists, and business people who want to make a difference.

A BS degree in renewable Materials requires command of a broad range of technical, scientific, business and design skills. The curriculum is under continuous review and revision to ensure that content and learning objectives are aligned with employer expectations and advancements in the field.

With a degree in Renewable Materials you can pursue diverse and flexible career paths where you might develop new products/services, market those products/services, manage high-tech production operations, or design new and innovative products or art. Most people will change jobs several times and be expected to shoulder many different responsibilities over the course of their professional career. After successfully completing the Renewable Materials degree, you will possess a firm foundation of skills and knowledge on which to build your career.

Classes in the Department of Wood Science & Engineering are small and taught by faculty who take a personal interest in student success. Our academic advisor and faculty mentors will help you navigate your degree program and provide information on summer employment and permanent positions.

Renewable Materials Student Learning Outcomes

Demonstrate fundamental knowledge of wood and similar renewable materials that make them challenging to utilize as industrial and building materials.

Demonstrate command of renewable material moisture content and specific gravity calculations.

Demonstrate ability to find, compile, analyze and communicate technical information.

Gain familiarity with the diverse complexity of the Renewable Materials industry, and the challenges it faces with balancing business and environmental goals.

Demonstrate a combination of technical and business acumen that allows effective management of process and people.

Gain information and knowledge to become a better global citizen.

Demonstrate ability to creatively self-direct learning outcomes within the classroom environment and/or through independent undergraduate research.

Renewable Materials Curriculum

In order to earn a BS in Renewable Materials, students must complete the following requirements:

- OSU Baccalaureate Core (“Bacc Core”)
- Renewable Materials Core
- Renewable Materials Option
- Work Experience
- Additional elective courses sufficient to accumulate a minimum of 180 total credits, of which at least 60 must be upper-division (courses numbered 300 or higher).

Renewable Materials Core (choose one course per category)

Course Number	Credits	Course Name	Corvallis Campus	Distance Campus (E-Campus)	Prerequisites
CH 121	5	General Chemistry	F, W	F, W, SP, SU	
CH 122*	5	General Chemistry	W, SP	F, W, SP, SU	CH 121 w/ C- or better
COMM 111* or COMM 114*	3	Public Speaking Argument & Critical Discourse	F, W, SP, SU F, W, SP, SU	F, W, SP, SU	
FES 240*	4	Forest Biology	F, SP	F, SP, SU	
FOR 111	3	Introduction to Forestry	F	W, SU	
FOR 112	3	Computing Applications in Forestry	W, SP		
WR 121*	4	English Composition	F, W, SP, SU	F, W, SP, SU	
WR 214* or WR 327*	3	Writing in Business	F, W, SP	F, W, SP, SU	WR 121 w/ C- or better
	3	Technical Writing	F, W, SP, SU	F, W, SP, SU	
WSE 111	2	Renewable Materials for a Green Planet	F		
WSE 210	4	Renewable Materials Technology and Utilization		F	Online only 21-22
WSE 225	3	Principles of Architectural Design	SP		
WSE 250 or ENGR 248	3	CAD: Computer Aided Design Engineering Graphics & 3-D Modeling	F, W, SP	W, SU	Subs for 250
WSE 320	3	Anatomy of Renewable Materials	F		
WSE 321	3	Chemistry of Renewable Materials	F		CH 122 w/D- or better
WSE 322	4	Physical and Mechanical Properties of Renewable Materials	W		WSE 321 w/ C- or better
WSE 324	3	Renewable Materials Laboratory	SP		WSE 321 & WSE 322 w/C- or better
WSE 453^	3	Forest Products Business	W		ECON 201 & 202 Recommended
WSE 465	2	Renewable Materials Manufacturing Experience	F		

* Baccalaureate Core Course

^ Writing Intensive Course

Art and Design Option

The Art and Design option prepares students to engage with renewable materials on an aesthetic level, whether as interior designers, fine artists, or entrepreneurs. Students will gain an in-depth knowledge of renewable materials and how those materials can function visually within the human space. In addition to the aesthetic aspect, students will gain an understanding of green building materials and green architecture. Students in the A&D option may also earn a Studio Art minor by completing 27 credits of applicable course work.

Art and Design Core

Course	Credits	Course Name	Corvallis Campus	Distance Campus (E-Campus)	Prerequisites
ART 115	4	2-D Core Studio	F, W, SP		
ART 117	4	3D Core Studio	SP		
ART 131	4	Drawing Core Studio	F, W, SP, SU		
ART 234	4	Drawing II: Figure	F, W, SP		ART 131 W/ C- or better
ART 291	4	Sculpture I	F		ART 117 w/ C- or better
DSGN 121	3	Computer Aided Design	F, W, SP	F, W, SU	
MTH 245*	4	Mathematics for Management, Life, and Social Sciences	SP, SU	W, SU	MTH 111 w/ C- or better
ST 201	4	Principles of Statistics I	F, W, SP	F, W, SP, SU	
ST 202	4	Principles of Statistics II	SP	F, W	ST 201 w/ D- or better
WSE 211	4	Woodturning with Science I	F		
WSE 266	3	Industrial Hemp		F, W	
WSE 351	3	Advanced CAD: Computer Aided Design			WSE 250 w/C- or better
WSE 352	3	CAM for CNC/Laser Engraver			WSE 350 w/ C- or better
WSE 392*	3	Bambooolooza: The Fascinating World of Bamboo		F, W, SP, SU	No Freshmen or Sophomores
WSE 414	8	Art and Design Capstone	W		

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

Area of Concentration:

Your Area of Concentration should include 24 total credits. Of those 24 credits:

- 12 credits must be upper division studio credits (300- 400 level)
- 12 credits must be from the list of Restricted Electives:
 - ART 101. *Introduction to the Visual Arts (3)
 - ART 121. Foundations: Computers in Visual Arts (4)
 - ART 208. *Introduction to Asian Art (3)
 - ART 215. Color in the Visual Arts (4)
 - ART 263. Digital Photography (4)
 - ART 310. *Early Chinese Art and Archaeology (3)
 - ART 311. *Late Chinese Art and Culture (3)
 - ART 313. *Art of Japan (3)
 - ART 331. Drawing Concepts (4)
 - ART 351. Installation (4)
 - ART 367. *History of Design (3)
 - ART/WSE 413. Woodturning with Science II (4)
 - WSE 350. Secondary Products Design and Manufacturing (3)

WSE 450. Furniture Design I (3)
WSE 451. Entrepreneurial Product Development II (3)
Approved COF Int'l Programs (6)

Bacc Core with Art & Design Option

Bacc Core Category	Fulfilled by
Fitness Lecture	HHS 231
Fitness Activity	HHS 24X or PAC course
Mathematics	MTH 245
Speech	COMM 111 or 114
Writing I	WR 121
Writing II	WR 214 or 327
Biological Science	FES 240
Physical Science	CH 122
Add'l Bio or Physical Science	Choose a course
Cultural Diversity	Possible to cover with a Restricted Elective course
Literature & Arts	Possible to cover with a Restricted Elective course: ART 101
Western Culture	Choose a course
Difference, Power, Discrimination	Choose a course
Social Processes & Institutions	Choose a course
Contemporary Global Issues	Choose a course
Science, Technology, Society	WSE 392

Sample Course Plan – RM with Art & Design Option

This is a sample schedule. Actual schedules will vary from student to student based upon factors such as math placement and course availability. Students are strongly encouraged to create a personalized plan with their academic advisor. *Courses that fulfill Baccalaureate Core requirements are italicized.*

B.S. in Renewable Materials Art & Design Option | 2021-2022

	Fall		Winter		Spring	
First Year	FOR 111: Intro. to Forestry CH 121: General Chemistry I <i>WR 121: English Composition</i> <i>COMM 111: Public Speaking</i> <i>or COMM 114: Argument</i> WSE 111: RM for a Green Planet	3 5 4 3 2	ART 115: 2-D Core Studio <i>CH 122: General Chemistry II</i> FOR 112: Comp Apps in Forestry <i>Physical Activity Course</i>	4 5 3 1	ART 117: 3-D Core Studio ART 131: Drawing Core Studio DSGN 121: Computer Aided Design <i>MTH 245: Math for Mgmt, & Life Sci.</i>	4 4 3 4
	Total Credits	17	Total Credits	13	Total Credits	15
Second Year	<i>FES 240: Forest Biology</i> WSE 250: CAD WSE 210: RM Tech & Utilization WSE 211: Woodturning I	4 3 4 4	<i>ART 234: Drawing II/Figure</i> ST 201: Principles of Statistics <i>WR 214: Writing in Business</i> <i>Or WR 327: Technical Writing</i> Restricted Elective	4 4 3 3	ART 291: Sculpture I ST 202: Principles of Statistics WSE 225: Princ. of Arch Design WSE 266: Industrial Hemp <i>HHS 231: Lifetime Fitness</i>	4 4 3 3 2
	Total Credits	15	Total Credits	14	Total Credits	16
Third Year	WSE 320: Wood Anatomy WSE 321: Chemistry of RM <i>Cultural Diversity Bacc Core</i> Restricted Elective <i>Literature & Arts Bacc Core</i>	3 3 3 3 3	WSE 322: Phys & Mech. Prop of RM WSE 351: Advanced CAD <i>WSE 392: Bamboolooza</i> <i>Social Processes & Inst Bacc Core</i> Restricted Elective	4 3 3 3 3	WSE 324: RM Laboratory WSE 352: CAM for CNC/Laser Eng. Restricted Elective UD Art Studio Course Free Elective	3 3 3 3 3
	Total Credits	15	Total Credits	16	Total Credits	15
Fourth Year	UD Art Studio course WSE 465: RM Manufacturing Exper. Free Elective Free Elective <i>Diff, Power, Discrim Bacc Core</i>	4 2 3 4 3	<i>WSE 414: Art & Design Capstone</i> <i>WSE 453: Forest Products Business</i> UD Studio course	8 3 3	UD Art Studio Course <i>Contemporary Global Issues Bacc Core</i> <i>Add'l Bacc Core Science</i> Free Elective	3 3 4-5 4
	Total Credits	16	Total Credits	14	Total Credits	14

Management & Marketing Option

The Marketing & Management option provides students with the skills to manage organizations to be competitive in the global renewable materials marketplace or develop innovative and effective marketing programs for green products. Completion of the Management and Marketing option (and meeting additional grade requirements of the College of Business) will fulfill the requirements for a transcript-visible Business and Entrepreneurship minor.

Management & Marketing Core

Course	Credit	Course Title	Corvallis Campus	Distance Campus (E-Campus)	Prerequisites
BA 211	4	Financial Accounting	F, W, SP	F, W, SP, SU	C- or better in MTH 111, 241, or 251
BA 213	4	Managerial Accounting	F, W, SP	F, W, SP, SU	BA 211 w/ C- or better
BA 330	4	Legal Environment of Business	SP, SU	F, W, SP, SU	Freshmen may not enroll
BA 260	4	Introduction to Entrepreneurship	F, W, SP, SU	F, W, SP, SU	Freshmen may not enroll
BA 351	4	Managing Organizations	F, SP	W, SP, SU	Freshmen may not enroll
BA 360	4	Introduction to Financial Management	F, W, SP, SU	F, W, SP, SU	C- or better in BA 211 & ECON 201
BA 390	4	Principles of Marketing	F, W, SP, SU	F, W, SP, SU	C- or better in ECON 201. Freshmen may not enroll
ECON 201*	4	Introduction to Microeconomics	F, W, SP, SU	F, W, SP, SU	MTH 111 recommended
ECON 202*	4	Introduction to Macroeconomics	F, W, SP, SU	F, W, SP, SU	MTH 111 recommended
MTH 111*	4	College Algebra	F, W, SP, SU	F, W, SP, SU	Math placement score
MTH 241*	4	Calculus for Management and Social Science	F, W, SP, SU	F, W, SP, SU	MTH 111 w/ C- or better
ST 351	4	Introduction to Statistical Methods I	F, W, SP, SU	F, W, SP, SU	
ST 352	4	Introduction to Statistical Methods II	F, W, SP, SU	F, W, SP, SU	ST 351 w/ D- or better
WSE 455	3	Industrial Marketing in the Forest Sector	F		
WSE 461	4	Bio-Based Products Manufacturing	F		WSE 210, 321 & 324 w/ C- or better
WSE 462	4	Advanced Manufacturing I	W		WSE 461 w/ C- or better
WSE 471	3	Renewable Materials in Building Construction	SP		

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

Area of Concentration:

Your area of concentration should include a total of 24 credits. Of those 24 credits:

- At least 20 credits must be upper-division (300-400 level)
- 12 credits can be of the student's choosing
- 12 credits must be from the list of restricted electives:
 - AEC/ECON 352. *Environmental Economics and Policy (3)
 - BA 357. Operation Management (4)
 - BA 432. *Environmental Law, Sustainability, and Business (3)
 - BA 451. Supply and Sourcing Management (4)
 - BA 458. Innovation and New Product Development (4)
 - BA 460. Venture Management (4)
 - ECON 340. International Economics (4)
 - FES 241. Dendrology (3)
 - MGMT 364. Project Management (4)
 - MGMT 452. Leadership (4)
 - MRKT 396. Fundamentals of Marketing Research (4)
 - MRKT 488. Professional Selling (4)
 - MRKT 489. Personal Selling Skills and Techniques (4)
 - MRKT 497. Global Marketing (4)
 - PS 477. International Environmental Politics and Policy (4)
 - Approved COF Int'l Programs (6)

Bacc Core with Management & Marketing Option

Bacc Core Category	Fulfilled by
Fitness Lecture	HHS 231
Fitness Activity	HHS 24X or PAC course
Mathematics	MTH 241
Speech	COMM 111 or 114
Writing I	WR 121
Writing II	WR 214 or 327
Biological Science	FES 240
Physical Science	CH 122
Add'l Bio or Physical Science	Choose a course
Cultural Diversity	Choose a course
Literature & Arts	Choose a course
Western Culture	Choose a course
Social Processes & Institutions	ECON 201
Difference, Power, Discrimination	Choose a course
Contemporary Global Issues	Choose a course
Science, Technology, Society	Choose a course

Sample Course Plan – RM with Marketing & Management Option

This is a sample schedule. Actual schedules will vary from student to student based upon factors such as math placement and course availability. Students are strongly encouraged to create a personalized plan with their academic advisor. *Courses that fulfill Baccalaureate Core requirements are italicized.*

B.S. in Renewable Materials Marketing & Management Option | 2021-2022

	Fall		Winter		Spring	
First Year	MTH 111: College Algebra CH 121: General Chemistry I FOR 111: Intro to Forestry WSE 111: RM for a Green Planet	4 5 3 2	MTH 241: Calc for Mgmt & Soc Sci CH 122: General Chemistry II with lab FOR 112: Computing Apps in Forestry COMM 111: Public Speaking or COMM 114: Argument & Discourse	4 5 3 3	PAC: Physical Activity Course HHS 231: Lifetime Fitness ECON 201: Prin. of Microeconomics WR 121: English Composition Free elective	1 2 4 4 5
	Total Credits	14	Total Credits	15	Total Credits	16
Second Year	FES 240: Forest Biology WSE 210: RM Tech & Utilization WSE 250: Comp Aided Design BA 211: Financial Accounting	4 4 3 4	ECON 202: Macroeconomics ST 351: Principle of Statistics BA 230: Business Law I or BA 330: Legal Env. of Business BA 213: Managerial Accounting	4 4 4 4	WR 214: Business Writing or WR 327: Technical Writing BA 260: Intro to Entrepreneurship ST 352: Principles of Statistics WSE 225: Princ. Of Arch. w/RM	3 4 4 3
15	Total Credits	15	Total Credits	16	Total Credits	14
Third Year	WSE 320: Wood Anatomy WSE 321: Chemistry of RM BA 351: Managing Organizations Restricted Elective WSE 455: Indus. Mktg in For Sector	3 3 4 4 3	WSE 322: Phys & Mech Prop of RM BA 360: Intro to Financial Mgmt Restricted Elective <i>Literature & Arts Bacc Core</i>	3 4 4 3	WSE 324: Renewable Materials Lab BA 390: Principles of Marketing Restricted Elective Area of Concentration course	3 4 4 3
	Total Credits	17	Total Credits	14	Total Credits	14
Fourth Year	WSE 465: RM Manufacturing Exp. WSE 461: Bio-Based Manufacturing <i>Western Culture Bacc Core</i> <i>Difference, Power, Discrim Bacc Core</i> Area of Concentration course	2 4 3 3 3	WSE 462: Advanced Manufacturing I WSE 453: <i>Forest Products Business</i> <i>Global Issues Bacc Core</i> UD Area of Concentration course Free Elective	4 3 3 3 3	WSE 471: RM in Building Construction <i>Cultural Diversity Bacc Core</i> <i>Science, Technology, Society Bacc Core</i> Area of Concentration Course <i>Add'l Bacc Core Science</i>	3 3 3 3 4-5
	Total Credits	15	Total Credits	16	Total Credits	16-17

Science and Engineering Option

This is a flexible, math- and science-intensive option that allows students to design a personalized curriculum that opens doors to jobs that solve complex problems, create efficiencies, foster intelligent use of renewable materials, or to graduate school.

Science & Engineering Core

Course	Credits	Course Title	Corvallis Campus	Distance Campus (E-Campus)	Prerequisites
BA 315	4	Accounting for Decision Making	F, W, SP	F, W, SP, SU	Freshmen may not enroll
BA 330	4	Legal Environment of Business	SP, SU	F, W, SP, SU	Freshmen may not enroll
CH 123*	5	General Chemistry	SP	F, W, SP, SU	CH 122 w/ C- or better
ECON 201*	4	Introduction to Microeconomics	F, W, SP, SU	F, W, SP, SU	MTH 111 recommended
ECON 202*	4	Introduction to Macroeconomics	F, W, SP, SU	F, W, SP, SU	MTH 111 recommended
MTH 251*	4	Differential Calculus	F, W, SP, SU	F, W, SP, SU	MTH 112 w/C- or better
MTH 252	4	Integral Calculus	F, W, SP, SU	F, W, SP, SU	MTH 251 w/ C- or better
MTH 254	4	Vector Calculus I	F, W, SP, SU	F, W, SP, SU	MTH 252 w/C- or better
PH 201*, 202 & 203 or PH 211*, 212 & 213	5, 5, 5 4, 4, 4	General Physics General Physics with Calculus	F, W, SP, SU F, W, SP, SU	F, W, SP	Perquisites/co-requisites vary
ST 314	3	Statistics for Engineers	F, W, SP	F, W, SP, SU	MTH 252 w/ D- or better
WSE 461	4	Bio-Based Product Manufacturing	F		WSE 210, 321 & 324 w/ C- or better
WSE 462	4	Advanced Manufacturing I	W		WSE 461 w/ C- or better
WSE 471	3	Renewable Materials in Building Construction	SP		
WSE 473	3	Bioenergy and Environmental Impact	SP		D- or better in CH 122 and MTH 111, 241, 245 or 251

* Baccalaureate Core Course (BCC)

^ Writing Intensive Course (WIC)

Area of Concentration:

Your area of concentration should include 24 total credits, 12 of which should be upper-division (300-400 level classes). Many students opt to complete a minor as their area of concentration in this option, however, you are free to design your area of concentration any way you wish (a selection of individual classes around a theme vs. an OSU approved minor).

Bacc Core with Science & Engineering Option

Bacc Core Category	Fulfilled by
Fitness Lecture	HHS 231
Fitness Activity	HHS 24X or PAC course
Mathematics	MTH 251
Speech	COMM 111 or 114
Writing I	WR 121
Writing II	WR 214 or 327
Biological Science	FES 240
Physical Science	CH 122
Add'l Bio or Physical Science	CH 123
Cultural Diversity	Choose a course
Literature & Arts	Choose a course
Western Culture	Choose a course
Social Processes & Institutions	ECON 201
Difference, Power, Discrimination	Choose a course
Contemporary Global Issues	Choose a course
Science, Technology, Society	Choose a course

Sample Course Plan - RM with Science & Engineering Option

This is a sample schedule. Actual schedules will vary from student to student based upon factors such as math placement and course availability. Students are strongly encouraged to create a personalized plan with their academic advisor. *Courses that fulfill Baccalaureate Core requirements are italicized.*

B.S. in Renewable Materials Science & Engineering Option 2021-2022						
	Fall		Winter		Spring	
First Year	MTH 251: Differential Calculus CH 121: General Chemistry I FOR 111: Intro to Forestry WSE 111: RM for a Green Planet	4 5 3 2	MTH 252: Integral Calculus CH 122: General Chemistry II with Lab FOR 112: Computing Apps in Forestry COMM 111: Public Speaking or COMM 114: Argument	4 5 3 3	MTH 254: Vector Calculus CH 123: General Chemistry III PAC: Physical Activity Course WR 121: English Composition HHS 231: Lifetime Fitness for Health	4 5 1 4 2
	Total Credits	14	Total Credits	15	Total Credits	16
Second Year	WSE 210: RM Tech & Utilization PH 211: General Physics w/ Calc. WSE 250: CAD Free elective	4 4 3 4	PH 212: General Physics w/ Calc WR 214: Business Writing or WR 327: Technical Writing ECON 201: Intro to Macroeconomics Free Elective	4 3 4 4	PH 213: General Physics w/ Calc ST 314: Stats. For Engineers FES 240: Forest Biology WSE 225: Princ. Of Arch. Design	4 3 4 3
	Total Credits	15	Total Credits	15	Total Credits	14
Third Year	WSE 320: Wood Anatomy WSE 321: Chemistry of RM Area of Concentration course Western Culture Bacc Core course ECON 202: Intro to Macroeconomics	3 3 4 3 4	WSE 322: Phys & Mech Prop of RM BA 215: Fundamentals of Accounting Area of Concentration course Literature & Arts Bacc Core	3 4 4 3	WSE 324: RM Laboratory Area of Concentration course BA 230: Business Law or BA 330: Legal Env. of Business Contemporary Global Issues Bacc Core	3 4 4 3
	Total Credits	17	Total Credits	14	Total Credits	14
Fourth Year	WSE 465: RM Manufacturing Exp. WSE 461: Bio-Based Product Manuf. Area of Concentration course Difference, Power, Discrimination BC Free Elective	2 4 4 3 3	WSE 462: Advanced Manufacturing I WSE 453: Forest Products Business Area of Concentration course Science/Tech/Society Bacc Core	4 3 4 3	WSE 471: RM in Building Construction WSE 473: Bioenergy & Env. Impact Area of Concentration course Cultural Diversity Bacc Core Free Elective to reach 180 cr. total	3 3 4 3 3
	Total Credits	16	Total Credits	14	Total Credits	16

Requirements for Graduation

In addition to the University and degree program requirements, Renewable Materials students meet the following requirements to graduate:

- **S/U Grading:** Students majoring in Renewable Materials may not take for S/U grading (Satisfactory/Unsatisfactory) any course listed as a requirement for the major. This includes approved substitutions. Baccalaureate core courses may be taken S/U unless they are also being used to fulfill a major requirement.
- **Grades of C- or better** must be earned in all WSE, FOR, FE, FES, NR, or TRAL classes (or their approved substitutions).
- **Approved Work Experience:** Renewable Materials students must complete at least six months of full-time work experience related to the major (see page 5).

Internship & Education Coordinator

Renewable Materials students receive assistance with Internship and Work Experience placement from the WSE Internship & Education Coordinator, Michelle Maller. Michelle can be contacted at 541-737-4259 or michelle.maller@oregonstate.edu. Her office is located in Richardson 136.

Work Experience Requirement

Students in Renewable Materials must complete a minimum of six months of work experience as part of their degree requirements. One month of work equals 150 hours, and six months equals 900 hours of certified work experience. A minimum of 3 months of work experience should come from work with a renewable materials company or through an approved entrepreneurial work experience outside of OSU (see below).

The procedure for documenting completed work experience is as follows:

- 1) Students complete the Work Experience Practicum form available online: forestry.oregonstate.edu/student-services/work-experience
- 2) Work Experience Practicum form is routed to the student's supervisor and the Department Chair (or designee) for their major, and those individuals complete the online evaluation.
- 3) Completed Work Experience Practicum Forms are reviewed and evaluated by your Academic Advisor and the experience is documented in MyDegrees.

All work experience forms should be completed at least three months prior to your expected graduation date to allow for employer evaluations and updating of your student record.

Failure to document required work experience in a timely manner could delay your graduation.

Work Experience Information for Renewable Materials Students

Students must meet with the WSE Education and Internship Coordinator prior to completing and submitting a Work Experience Practicum form addressing the learning outcomes, type of job performed, supervisor contact information, etc. This will be used to send an evaluation to the supervisor.

- The immediate supervisor cannot be a current OSU undergraduate student, an employee in a supervisory role who is not a current OSU undergraduate student should evaluate work, verify hours and complete the employee evaluation.
- If you are self-employed and do not have a direct supervisor, your work experience will be evaluated by a member of the College of Forestry who will determine if your work meets program guidelines and should be forwarded to the Department Designee for certification.

Entrepreneurial Work Experience Guidelines for Renewable Materials Students

- 1) Students interested in pursuing entrepreneurial work experience must have successfully completed WSE 455 and/or WSE 450/451.
- 2) Students must submit a business and marketing plan for approval before receiving permission to continue with an entrepreneurial experience that will be credited as internship hours. The entrepreneurial experience must be related to renewable materials.
- 3) Students must connect with a local mentor, such as a business owner or artist/designer that works in a field similar to their interests. The mentor must be willing to spend at least 2 hours per month working with the student to guide the experience and provide expertise. OSU faculty cannot be mentors, because making connections with the industry is vital to running a business.
OR
Students must apply and be accepted into a product accelerator program such as RAIN Corvallis or RAIN Eugene.
- 4) At the end of the internship experience, students will be required to present their experience to the WSE Education and Internship Coordinator, assessing their successes/failures, and showing evidence of significant marketing and product sales whether web based or brick and mortar retail/wholesale sales.