

SCIENCE AND ENGINEERING OPTION

This option is offered within the following major(s):

- Renewable Materials - College of Forestry (<http://catalog.oregonstate.edu/college-departments/forestry/wood-science-engineering/renewable-materials-bs-hbs/>)

This is a flexible, math- and science-intensive program 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. Students select a group of courses (often minors) that complement their interests.

Option Code: 289

Code	Title	Credits
Required Core		
BA 315	ACCOUNTING FOR DECISION MAKING	4
BA 330	LEGAL ENVIRONMENT OF BUSINESS	4
CH 123	*GENERAL CHEMISTRY	5
ECON 201	*INTRODUCTION TO MICROECONOMICS	4
ECON 202	*INTRODUCTION TO MACROECONOMICS	4
IE 285/MFGE 285	INTRODUCTION TO INDUSTRIAL AND MANUFACTURING ENGINEERING	3
MTH 251	*DIFFERENTIAL CALCULUS	4
MTH 252	INTEGRAL CALCULUS	4
MTH 254	VECTOR CALCULUS I	4
PH 201	*GENERAL PHYSICS	5
or PH 211	*GENERAL PHYSICS WITH CALCULUS	
PH 202	*GENERAL PHYSICS	5
or PH 212	*GENERAL PHYSICS WITH CALCULUS	
PH 203	*GENERAL PHYSICS	5
or PH 213	*GENERAL PHYSICS WITH CALCULUS	
ST 314	INTRODUCTION TO STATISTICS FOR ENGINEERS	3
WSE 430	FUNDAMENTALS OF ENGINEERING MECHANICS	4
WSE 461	BIO-BASED PRODUCTS MANUFACTURING	4
WSE 462	ADVANCED MANUFACTURING 1	4
WSE 471	RENEWABLE MATERIALS IN BUILDING CONSTRUCTION	3
WSE 473	BIOENERGY AND ENVIRONMENTAL IMPACT	3
Approved Area of Concentration		
	Approved 'Area of Concentration' – A 24-credit program of study proposed by the student and approved by the WSE Department Head (minimum of 12 upper-division credits)	24
Total Credits		96

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Baccalaureate Core Course (BCC)

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Writing Intensive Course (WIC)

Baccalaureate Core Courses

Not satisfied by the Renewable Materials core or the option.

Courses meeting other baccalaureate core requirements for the following categories not specified by the Renewable Materials Core or the option can be found in the OSU Catalog (<https://catalog.oregonstate.edu/>).

Code	Title	Credits
	Cultural Diversity	3
	Difference, Power, and Discrimination	3
	Literature and Arts	3
	Western Culture	3
	Science, Technology, and Society Synthesis	3
	Contemporary Global Issues	3
Total Credits		18

Plus additional Free Electives sufficient to ensure 180 total credits (60 must be upper division).

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