

# RENEWABLE ENERGY GRADUATE OPTION

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

- Mechanical Engineering - College of Engineering (<http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/mechanical-engineering-meng-ms-phd>)

This graduate option within the Mechanical Engineering graduate major distinguishes an area of interdisciplinary specialization, Renewable Energy (RE).

Renewable Energy is inherently interdisciplinary and thus is being proposed as an interdisciplinary option within ME which requires students to select 16 credits of ME courses from across all four ME primary graduate options and then choose from a set of courses which equip students to understand the underlying physical phenomena governing renewable energy technologies and be able to understand overarching themes in US energy policy pertaining to renewables.

Students wishing to declare the ME Renewable Energy (RE) graduate option must first fulfill core mechanical engineering requirements in one of two ways:

1. Declare an interdisciplinary option in mechanical engineering, or
2. Fulfill the requirements of one of the four ME Primary Options.

Code	Title	Hours
<b>Required</b>		
Select 8 credits of the following technical electives:		8
CE 630	OCEAN WAVE MECHANICS I	
CE 639	DYNAMICS OF OCEAN STRUCTURES	
CE 647	OCEAN AND COASTAL ENGINEERING MEASUREMENTS	
CHE 550	CONVENTIONAL AND ALTERNATIVE ENERGY SYSTEMS	
CHE 551	SOLAR ENERGY TECHNOLOGIES	
ECE 530	CONTEMPORARY ENERGY APPLICATIONS	
ECE 532	DYNAMICS OF ELECTROMECHANICAL ENERGY CONVERSION	
ECE 533	POWER SYSTEM ANALYSIS	
ME 507	SEMINAR	
ME 543	RENEWABLE ENERGY: THERMAL FLUID SYSTEMS	
Select one of the following technical electives:		4
PS 573	US ENERGY POLICY	
PS 578	RENEWABLE ENERGY POLICY	
Total Hours		12

**Option Code: 3222**