

ADVANCED MANUFACTURING GRADUATE OPTION

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

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

The Advanced Manufacturing graduate option is offered under both the Industrial Engineering and Mechanical Engineering majors. Advanced Manufacturing (AM) focuses on the integration of nanomaterial synthesis and microfabrication techniques and conventional macroscale manufacturing technologies to produce nano- and microscale systems in an economically, environmentally, and socially sustainable manner.

Option Code: 3191

A minimum of 12 credits from the following set of specific courses will be required of students wishing to declare the IE Advanced Manufacturing (AM) graduate option.

Code	Title	Credits
Select one materials science course:		4
MATS 570	STRUCTURE-PROPERTY RELATIONS IN MATERIALS	
Select one or more manufacturing system course:		4
IE 552	DESIGN OF INDUSTRIAL EXPERIMENTS	
MFGE 535	INDUSTRIAL SUSTAINABILITY ANALYSIS	
MFGE 536	LEAN MANUFACTURING SYSTEMS ENGINEERING	
Select one or more manufacturing processes course(s):		4
MFGE 531	MICROMANUFACTURING	
MFGE 538	COMPOSITES MANUFACTURING	
Total Credits		12

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