MANUFACTURING SYSTEMS OPTION

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

- Manufacturing Engineering - College of Engineering (http://catalog.oregonstate.edu/college-departments/engineering/school-mechanical-industrial-manufacturing-engineering/manufacturing-engineering-bs-hbs/)

This option, taken in conjunction with the BS in Manufacturing Engineering degree, will prepare students for careers in manufacturing industry that focus on production system design, analysis, and improvement.

Option Code: 957

Code	Title	Credits
Required Courses		
ENGR 390	ENGINEERING ECONOMY	3
IE 112	SPREADSHEET SKILLS FOR INDUSTRIAL & MANUFACTURING ENGINEERS	1
IE 212	COMPUTATIONAL METHODS FOR INDUSTRIAL ENGINEERING	4
IE 285/MFGE 285	INTRODUCTION TO INDUSTRIAL AND MANUFACTURING ENGINEERING	3
IE 355	STATISTICAL QUALITY CONTROL	4
IE 356	EXPERIMENTAL DESIGN FOR INDUSTRIAL PROCESSES	4
IE 366	WORK SYSTEMS ENGINEERING	4
IE 367	PRODUCTION PLANNING AND CONTROL	4
IE 368	FACILITY DESIGN AND OPERATIONS MANAGEMENT	4
Restricted Electives		
Select a minimum of 8 credits from the following:		8
CHE 445	POLYMER ENGINEERING AND SCIENCE	
ECE 418	SEMICONDUCTOR PROCESSING	
IE 411	VISUAL PROGRAMMING FOR INDUSTRIAL APPLICATIONS	
IE 412	INFORMATION SYSTEMS ENGINEERING	
IE 415	SIMULATION AND DECISION SUPPORT SYSTEMS	
IE 418	TELECOMMUNICATION CONCEPTS	
IE 419	WIRELESS NETWORKS	
IE 425	INDUSTRIAL SYSTEMS OPTIMIZATION	
IE 426	STOCHASTIC MODELS OF INDUSTRIAL SYSTEMS	
IE 470	MANAGEMENT SYSTEMS ENGINEERING	
IE 471	PROJECT MANAGEMENT IN ENGINEERING	
IE 475	ADVANCED MANUFACTURING COSTING TECHNIQUES	
MATS 322	MECHANICAL PROPERTIES OF MATERIALS	
ME 312	THERMODYNAMICS	
ME 316	MECHANICS OF MATERIALS	
ME 331	INTRODUCTORY FLUID MECHANICS	
ME 383	MECHANICAL COMPONENT DESIGN	
ME 480	MATERIALS SELECTION	
ME 499	SPECIAL TOPICS	
MFGE 438	COMPOSITES MANUFACTURING	
ROB 421	APPLIED ROBOTICS	
Total Credits		39

Option Code: 957