

# Mechanical Engineering: Manufacturing Option Coursework

## School of Mechanical, Industrial and Manufacturing Engineering Oregon State University

### CLASSES REQUIRED FOR MECOP ADMISSION

ENGR 112	Engineering Orientation II
ENGR 211	Statics
ENGR 212	Dynamics
MTH 251	Differential Calculus
MTH 252	Integral Calculus
MTH 254	Vector Calculus I
MTH 256	Applied Differential Calculus
MTH 341	Matrix and Power Series Methods
CH 201	Chemistry for Engineering Majors
PH 211	General Physics with Calculus
PH 212	General Physics with Calculus
PH 213	General Physics with Calculus
WR 121	English Composition
COMM 111 OR 114	Public Speaking OR Argument and Critical Discourse

### CLASSES REQUIRED FOR FIRST MECOP INTERNSHIP

ENGR 407	MECOP Engineering Seminar
MATS 321	Materials Science
ME 250	Introduction to Manufacturing Processes
ME 311	Introduction to Thermal-Fluid Science
ME 316	Mechanics of Materials
ME 382	Introduction to Design
WR 327	Technical Writing
MFGE 336	Production Engineering

### CLASSES STRONGLY RECOMMENDED FOR FIRST MECOP INTERNSHIP

ME 317	Intermediate Dynamics
ME 331	Introductory Fluid Mechanics
ME 373	Mechanical Engineering Methods
ME 383	Mechanical Component Design

### CLASSES REQUIRED FOR SECOND MECOP INTERNSHIP

ENGR 390	Engineering Economics and Project Management
MATS 322	Mechanical Properties of Materials
ME 317	Intermediate Dynamics
ME 331	Introductory Fluid Mechanics
ME 373	Mechanical Engineering Methods
ME 383	Mechanical Component Design
MFGE 337	Materials and Manufacturing Processes
MFGE 413	Computer Aided Design and Manufacturing
MFGE 436	Lean Manufacturing Systems Engineering

### CLASSES STRONGLY RECOMMENDED FOR SECOND MECOP INTERNSHIP

ENGR 202	Electrical Fundamentals II
ME 332	Heat Transfer