

# Mechanical Engineering Coursework

## Oregon Institute of Technology

### REQUIREMENTS FOR MECOP ADMISSION

Junior standing and completed required courses for admission to the upper division degree program by Fall Term of MECOP Year 1.

### CLASSES REQUIRED FOR FIRST MECOP INTERNSHIP

CHE 201/204	General Chemistry and Lab
CHE 202/205	General Chemistry and Lab
ENGR 111 or MECH 111	MMET Orientation
ENGR 211 or MECH 211	Engineering Mechanics: Statics
ENGR 213 or MECH 213	Engineering Mechanics: Strength of Materials
ENGR 236 or MECH 236	Fundamentals of Electric Circuits
ENGR 266 or MECH 266	Engineering Computation
ENGR 355 or MECH 355	Thermodynamics
MATH 251Z	Differential Calculus
MATH 252Z	Integral Calculus
MATH 254	Vector Calculus I
MECH 260	Engineering Materials I
MECH 363	Engineering Instrumentation
MET 241	CAD for Mechanical Design I
MET 242	CAD for Mechanical Design II
MET 375	Solid Modeling
MFG 120	Introductory Machining Processes
MFG 314	Geometric Dimensioning and Tolerancing
PHY 221	General Physics w/Calculus
PHY 222	General Physics w/Calculus
SPE 111 or COM 111Z	Public Speaking
WRI 121Z	Composition I
WRI 122Z	Composition II
OR	
WRI 227Z	Technical Writing

### ADDITIONAL CLASSES REQUIRED FOR SECOND MECOP INTERNSHIP

MATH 321	Applied Differential Equations I
MECH 315	Machine Design I
MECH 318	Fluid Mechanics I
MECH 360	Engineering Materials II

Additional courses are required and must be taken at the appropriate times to ensure timely graduation. Each student is required to develop an individualized course plan of study with an academic advisor, any deviations must be approved by the academic advisor.