

Industrial Coursework

100/200 SERIES CLASSES REQUIRED FOR PRO SCHOOL

OSU Course # Generic Description

ENGR 112	Engineering Orientation, II
ENGR 211	Statics
ENGR 201	Electrical Fundamentals, I
MTH 251	Differential Calculus
MTH 252	Integral Calculus
MTH 306	Matrix and Power Series
MTH 254	Vector Calculus, I
MTH 256	Applied Differential Equations
CH 201	Chemistry for Engineering Majors
PH 211	General Physics, I
PH 212	General Physics, II
PH 213	General Physics, III
WR 121	English Composition
COMM 111	Public Speaking

ADDITIONAL CLASSES RECOMMENDED FOR MECOP ENTRANCE

IE 285	Introduction to Industrial & Manufacturing Engineering
ENGR 213	Strength of Materials
ENGR 248	Engineering Graphics
CH 202	Chemistry for Engineering Majors
IE 212	<i>(To Be Named)</i>

300/400 SERIES CLASSES REQUIRED FOR FIRST MECOP INTERNSHIP

IE 337	Manufacturing Processing
IE 355	Quality and Applied Statistics I
IE 356	Quality and Applied Statistics II
IE 366	Work Design and Operations Measurement
IE 367	Production Planning & Control
IE 368	Facilities Design and Operations Management
ENGR 390	Engineering Economy
ENGR 407	MECOP Engineering Seminar

300/400 SERIES CLASSES RECOMMENDED BEFORE FIRST INTERNSHIP

ENGR 321	Materials Science
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300/400 SERIES CLASSES REQUIRED FOR SECOND MECOP INTERNSHIP

IE 412	Info System Engr
IE 415	Simulation and Decision Support Systems
ENGR 407	MECOP Engineering Seminar
WR 327	Technical Writing

ADDITIONAL COURSE RECOMMENDED BEFORE SECOND INTERNSHIP

IE 471	Project Management in engineering
ENGR 490	Engineering Economic Analysis

Manufacturing Coursework

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ADDITIONAL CLASSES RECOMMENDED FOR MECOP ENTRANCE

IE 285	Introduction to Industrial & Manufacturing Engineering
ENGR 213	Strength of Materials
ENGR 248	Engineering Graphics
CH 202	Chemistry for Engineering Majors
ST 314	Introduction to Statistics for Engineering Majors
IE 212	<i>(To Be Named)</i>

300/400 SERIES CLASSES REQUIRED FOR FIRST MECOP INTERNSHIP

IE 337	Introduction to Manufacturing Systems
IE 355	Quality and Applied Statistics I
IE 356	Quality and Applied Statistics II
IE 366	Work Design and Operations Measurement
IE 367	Production Planning & Control
IE 368	Facilities Design and Operations Management
ENGR 321	Materials Science
ENGR 390	Engineering Economy
ENGR 407	MECOP Engineering Seminar

300/400 SERIES CLASSES REQUIRED FOR SECOND MECOP INTERNSHIP

ENGR 311	Thermodynamics
WR 327	Technical Writing
ENGR 407	MECOP Engineering Seminar

Two of the Following Classes need to be taken before the Second Internship

IE 338	Manufacturing Process Development
ENGR 440	Modern Electronic Manufacturing
IE 436	Lean Manufacturing System Engineering
IE 437	Virtual and Automated Manufacturing Systems

ADDITIONAL COURSE RECOMMENDED BEFORE SECOND INTERNSHIP

IE 471	Project Management in Engineering
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