

# Electrical Engineering Coursework

School of Electrical Engineering and Computer Science

Oregon State University

## **COURSES REQUIRED FOR MECOP ADMISSION (Applications Open Winter Term)**

COMM 111 <i>or</i> COMM 114	Public Speaking <i>or</i> Argument and Critical Discourse
CS 162	Introduction to Computer Science II
ENGR 102	Design Engineering and Problem Solving
ENGR 103	Engineering Computation and Algorithmic Thinking
ENGR 201	Electrical Fundamentals I
ENGR 202	Electrical Fundamentals II
MTH 231	Elements of Discrete Mathematics
MTH 251	Differential Calculus
MTH 252	Integral Calculus
MTH 254	Vector Calculus
MTH 256	Applied Differential Equations
PH 211	General Physics with Calculus
WR 121	English Composition

## **COURSES REQUIRED FOR FIRST MECOP INTERNSHIP (Spring & Summer Terms)**

ENGR 407	MECOP Seminar
CS 261	Data Structures
ECE 271	Digital Logic Design
ECE 272	Digital Logic Design Lab
ECE 322	Electronics I
ECE 323	Electronics II
ECE 341	Junior Design I
ECE 342	Junior Design II
ECE 351	Signals and Systems I
ECE 352	Signals and Systems II
ECE 353	Introduction to Probability and Random Signals
<i>or</i> ECE 391	<i>or</i> Transmission Lines
ENGR 203	Electrical Fundamentals III
MTH 255	Vector Calculus II
MTH 264	Introduction to Matrix Algebra
MTH 265	Introduction to Series
WR 327	Technical Writing

## **COURSES REQUIRED FOR SECOND MECOP INTERNSHIP (Summer & Fall Terms)**

ECE 353	Introduction to Probability and Random Signals
ECE/CS 372	Introduction to Computer Networks
ECE 375	Computer Organization & Assembly Language Programming
ECE 390	Electric and Magnetic Fields
ECE 391	Transmission Lines
ECE 441	Engineering Project Design
ECE 442	Engineering Project Design
ECE 443	Engineering Project Design