

AREA 1: Analog/Digital Electronics				AREA 2: Control Systems				AREA 3: Communication Engineering				AREA 4: Power Engineering				AREA 5: Biomedical Engineering			
EEE	109	Electronics II** Prereq EEE 108, 108L, 117, 117L	4	EEE	187	Robotics Prereq EEE 180	4	EEE	154	Communication Circuit Design Prereq EEE 109 and 161	3	EEE	131	Electromechanics Lab Prereq EEE 117, WPE; Coreq EEE 130	1	EEE	120	Electronic Instrumentation Prereq EEE 108, EEE 117; Coreq EEE 108	4
EEE	110	Advanced Analog IC Prereq 109 and 180	3	EEE	188	Digital Control Systems Prereq EEE 180	3	EEE	162	Applied Wave Propagation	3	EEE	145	Power System Relay Protection Prereq EEE 130	3	EEE	122	Applied Digital Signal Process Prereq EEE 117, EEE 180	3
EEE	111	Adv. Analog IC Lab Prereq 109; either EEE 110 or EEE 235	1	EEE	189	Controls Lab Prereq 117, WPE; Coreq EEE 184	1	EEE	163	Traveling Waves Lab Prereq EEE 117, WPE; Coreq EEE 162	1	EEE	141	Power System Analysis* Coreq EEE 130	3	EEE	124	Embedded Systems Fundamentals Prereq EEE 174, EEE 122	3
CpE	138	Computer Network and Internet Prereq Csc 035, 060, 130	3	New Depth Areas will be Available Soon: Robotics Industrial Automation				EEE	165	Introduction to Optical Engr Prereq EEE 161, 180; Coreq EEE 185	3	EEE	142	Energy System Control Prereq EEE 130	3	EEE	126	Design of Devices & Systems for Market Appl Prereq EEE 120, EEE 122	3
CpE	151	CMOS & VSLI Prereq EEE 102 or 108	3					EEE	167	Electro-Optical Engr. Lab Prereq EEE 161, 180, WPE; Coreq EEE 165	1	EEE	143	Power System Lab* Prereq EEE 130, 141, WPE	1				
CpE	166	Advanced Logic Design Prereq CpE 064	4					EEE	181	Intro. to Digital Signal Proc. Prereq EEE 064, 180	3	EEE	144	Electric Power Distrib. Prereq EEE 130	3				
CpE	186	Computer Hardware Design Prereq CpE 185 or EEE 174	3					EEE	182	Digital Signal Processing Lab Prereq EEE 180; Coreq EEE 181	1	EEE	146	Power Elect. Control Drives Prereq EEE 108 and 130	3				
CpE	187	Embedded Processor Design Lab Prereq CpE 166, 185, and WPE	2					EEE	183	Digital Comun. Sys. Dsgn Prereq EEE 161, 180; Coreq EEE 185	3	EEE	148	Power Electronics Lab Coreq EEE 146	1				
								EEE	186	Communication Sys Lab Prereq EEE 117, WPE; Coreq EEE 185	1								
								Phys	106	Intro. To Modern Physics Prereq Math 030; Phys 011A, 011B, 011C or Phys 05A, 05B	3								
								Phys	130	Acoustics Prereq Math 030, Phys 011A, 011B, 011C	3								

EEE DEPTH: Must complete 6 units of lecture and 1 unit of lab within one of the above 4 areas

EEE ELECTIVE: Must complete and additional 6 units of lecture from any of the above 4 areas

4 units = 3 units lecture/1 unit lab

*Only students planning to complete EEE 193A/B may use EEE 141 and EEE 143 to meet depth/elective requirement

**Only students planning to complete EEE 192A/B may use EEE 109 to meet depth/elective requirement.

(Revised Fall 2005)

PRE- AND CO-REQUISITES FOR B.S.E.E.E. REQUIRED COURSES

CHEMISTRY (5units)

Chem 1A

PHYSICS (8 units)

Phys 11A (Math 31, 31)

Phys 11C (Phys 11A, Math 31)

MATHEMATICS (15 units)

Math 30

Math 31 (Math 30)

Math 32 (Math 31)

Math 45 (Math 31)

COMPUTER SCIENCE (3 units)

CSC 25

ENGINEERING (11 units)

Engr 17 (Prereq Phys 11C, Math 45, either concurrent)

Engr 70 (Prereq Phys 11A)

Engr 120 (Coreq EEE 180)

Engr 140 (Prereq Engr 17, 30 or Csc 130)

EEE ELECTIVES (13 units)

7 units EEE DEPTH (MUST INCLUDE 1 LAB)

6 units EEE elective

GENERAL EDUCATION (33 units)

See ABET Requirements

OTHER (3 units)

Engl 20 (Engl 1A) or Engr 150

ELECTRICAL AND ELECTRONIC ENGR (43 units)

EEE 064 (Prereq CSc 015 or Csc 025)

EEE 108 (Coreq EEE 108L; Prereq EEE 117, 166)

EEE 108L (Coreq EEE 108; Prereq EEE 117, 117L, 166)

EEE 109 (Prereq 108, 108L, 117, 117L, WPE)

EEE 117 (Coreq EEE 064 and 117L; Prereq Engr 017)

EEE 117L (Coreq EEE 117)

EEE 130 (Prereq 117)

EEE 141 (Coreq EEE 130)

EEE 143 (Prereq EEE 130, 141, WPE)

EEE 161 (Prereq Math 32, 45, Engr 17, Phys 11C, Csc 25)

EEE 166 (Coreq EEE 117, 117L)

EEE 174 (Prereq EEE 064)

EEE 180 (Prereq EEE 117; Coreq ENGR 120)

EEE 184 (Prereq EEE 108, 180)

EEE 185 (Prereq EEE 180, Engr 120)

EEE 192A (Prereq EEE 108, 130, 161, 174, 180, WPE, Oral Comm. and any two of EEE 141, 142, 144; Coreq EEE 143)

EEE 192B (Prereq 192A)

EEE 193A (Prereq EEE 108, 109, 161, 174, 180, WPE, Oral Comm.)

EEE 193B (Prereq 193A)

PRE- AND CO-REQUISITES FOR B.S.E.E.E. ELECTIVE COURSES

Analog/Digital Electronics

EEE 109 (see above)

EEE 110 (Prereq 109 and 180)

EEE 111 (Prereq 109; either EEE 110 or 235)

CpE 138 (Prereq CSc 035, 060, 130)

CpE 151 (Prereq EEE 064, 102 or 108, ENGR 017)

CpE 166 (Prereq CpE 064)

CpE 186 (Prereq CpE 185 or EEE 174)

CpE 187 (Prereq CpE 166, 185, WPE)

Biomedical Engineering

EEE 120 (Prereq EEE 108 and EEE 117; Coreq EEE108)

EEE 122 (Prereq EEE 117, EEE 180)

EEE 124 (Prereq EEE 174, EEE 122)

EEE 126 (Prereq EEE 120, EEE 122)

Control Systems

EEE 187 (Prereq EEE 180)

EEE 188 (Prereq EEE 180)

EEE 189 Prereq EEE 117, WPE; Coreq EEE 184)

New Depth Area will be Available Soon:

Robotics

Industrial Automation

Power Engineering

EEE 131 (Prereq EEE 117, WPE; Coreq EEE 130)

EEE 145 (Prereq EEE 130)

EEE 142 (Prereq EEE 130)

EEE 144 (Prereq EEE 130)

EEE 146 (Prereq EEE 108 and 130)

EEE 148 (Coreq EEE 146)

Communication Engineering

EEE 154 (Prereq EEE 109 and 161)

EEE 162

EEE 163 (Prereq EEE 117, WPE; Coreq EEE 162)

EEE 165 (Prereq EEE 161, 180; Coreq EEE 185)

EEE 167 (Prereq EEE 161, 180, WPE; Coreq EEE 165)

EEE 181 (Prereq EEE 064, 180)

EEE 182 (Prereq EEE 180; Coreq EEE 181)

EEE 183 (Prereq EEE 161, 180, Coreq 185)

EEE 186 (Prereq EEE 117, WPE; Coreq EEE 185)

Phys 106 (see catalog)

Phys 130 (see catalog)