

Department of Electrical and Computer Engineering

Electrical Engineering General Program

Possible 4 Year Course Plan

FRESHMAN			SOPHOMORE			JUNIOR			SENIOR				
FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING	FALL	WINTER	SPRING		
Math / Science Requirements													
CALCULUS I MATH 251		CALCULUS II MATH 252	LIN ALG MATH 261	DIF EQ I MATH 256		CALC IV MATH 254			APPL STAT STAT 451				
CHEM CH 221				PHYSICS PH 211/221 PH 212/222 PH 213/223			MATH/ SCI ELECTIVE						
CH 227				PH 214	PH 215	PH 216							
Engineering / Computer Science Requirements													
EXPLOR ELEC ECE 101	ENGR COMP ECE 102	ENGR PROGR ECE 103	ELEC CIRCUIT ANALYSIS I II III ECE 221 ECE 222 ECE 223 201 L 202 L 203 L			ELECTRONICS I II III ECE 321 ECE 322 ECE 323 301 L 302 L 303 L			SENIOR TRACK ELEC ECE 4XX ECE 4XX ECE 4XX				
	DIG CIRC ECE 171			DIG SYST I ECE 271 271 L		MICRO PROC ECE 371	FOURIER ANALYSIS ECE 312	FEEDBACK CONTROL ECE 311 311 L	ECE ELEC 4XX	START MS PROGRAM			
						ENG EMAG I ECE 331	ENG EMAG II ECE 332 332 L	ECE TRACK ELEC	INDSTRY DESGN PROCSS ECE 411	SR. PROJ DEVLP I ECE 412	S. P. D II ECE 413		
General Education Requirements													
FRESHMAN INQUIRY UNST 1XX UNST 1XX UNST 1XX			SOPHOMORE INQUIRY UNST 2XX UNST 2XX UNST 2XX			TECH RPT WR 327			PRIV PUBLIC INVEST EC 314U			UNST UPPER DIVISION CLUSTER	UNST UPPER DIVISION CLUSTER

EXPLANATION

CREDIT HOURS

2009-2010

- 1 TRANSFER STUDENTS MAY SUBSTITUTE PHYSICS 211-213 FOR PHYSICS 221-223
- 2 Refer to PSU Bulletin for General Education Requirements
- 2 Please see the department for details of available senior tracks and their requirements
- 4 SHADED AREA = CORE ADMISSION REQUIREMENTS

General Education Requirements Undergraduate Engineering Programs

There are **two** (2) separate sets of general education requirements:

1. University Requirements
2. Maseeh College of Engineering and Computer Science (MCECS) Requirements

You must satisfy **BOTH** sets of requirements.

University Requirements

- A. Freshmen entering with 29 or fewer prior university/college credits must complete all University Studies Requirements, including freshman and sophomore inquiry sequences and upper division cluster courses.
- B. Continuing and transfer students with 30-89 prior university/college credits must complete the following program:
 - Sophomore Inquiry: 30-59 credits, three courses; 60-74 credits, two courses; 75-89 credits, one course. The upper division cluster must be linked with one of these Sophomore Inquiry courses.
- C. Continuing and transfer students with 90 or more prior university/college credits must complete the following program:
 - University Studies requirements beginning with Upper Division Cluster courses. It is strongly recommended that students also take the single Sophomore Inquiry course that is linked to the chosen Upper Division Cluster.

PLACEMENT FOR TRANSFER STUDENTS

CREDITS TRANSFERRED	UNIVERSITY STUDIES PLACEMENT
0-29 Credits	Freshman Inquiry
30-44 Credits	3 Sophomore Inquiries
45-59 Credits	3 Sophomore Inquiries
60-74 Credits	2 Sophomore Inquiries
75-85 Credits	1 Sophomore Inquiries
90 or more credits	Upper Division Cluster + Senior Capstone

Maseeh College of Engineering and Computer Science General Education Requirements

- a) Freshmen admitted beginning with the 1994-95 academic year satisfy the PSU general education requirement with the University Studies Program.
- b) Transfer students must have a minimum of 39 credits of University Studies courses and/or Arts and Letters/Social Science courses at their previous college or at PSU prior to graduation. 12 of these credits are upper division cluster courses that must be taken at PSU.
- c) Transfer students who have not taken Freshman Inquiry must have completed COMM 100 (or equivalent) and WR 121 as part of the 39 credits of Arts and Letters/Social Sciences.
- d) All engineering students must complete EC 314U Public and Private Investment Analysis. Students may use EC 314U as a University Studies course in the Community Studies Cluster, the Knowledge, Rationality, and Understanding Cluster, or The Professions and Power Cluster.

Students should consult with their academic advisor or department chair regarding these requirements.

Updated: 07/2009