Advisor:
Printed:

ELECTRICAL ENGINEERING - Power Systems (128 hours)

Effective Fall 2022 (www.ece.ksu.edu)

DOE:
Class:
Flowchart: 81
Hours:

FRESHMAN

ENGL 100 (3) Expo Writ 1	ECON 110 (3) Macroeconomics
ECE 015 (0) New Student Assem	ECE 115 (1) New Student Dsn Proj
MATH 220 (4) Calculus 1	MATH 221 (4) Calculus 2 PR: MATH 220**
COMM 105 (2) Public Spkg	PHYS 213 (5) Engg Physics 1 PR/Conc: MATH 221**
ECE 210 (3) Intro to EE PR/Conc: MATH 220**	
CHM 210 (4) Chem I	CHM 230 (4) or BIOL 198

SOPHOMORE

CHE 354 (1) Basic Materials PR: CHM 210** PR/conc: PHYS 213**	
CHE 356 (1) Electronic Materials PR: CHE 354**	STAT 510 (3) Prob & Stat PR: MATH 221**
MATH 340 (4) Diff Eq PR: MATH 221**	MATH 222 (4) Calculus 3 PR: MATH 221**
PHYS 214 (5) Engg Phys II PR: PHYS 213** PR: MATH 221**	CIS 209 (3) C Prog for Engg PR: MATH 220**
ECE 410 (3) Cir Thry I PR: MATH 221** PR: ECE 210**	ECE 511 (3) Cir Thry II PR: ECE 410** PR: MATH 340**
ECE 241 (3) Int Cmp Engg	ECE 525 (3) Electronics 1 PR: ECE 410** or 519**

JUNIOR

H & SS (3) b.	H & SS (3) b.
ECE 557 (4) EM Theory 1 PR: ECE 410** PR: MATH 222** PR: PHYS 214**	ENGL 415 (3) Writ Comm PR: ENGL 100**
ECE 540 (3) App Sci Comp PR: STAT 510** PR: CIS 209** or CIS 200**	Tech Elec (3) a.
	ECE 502 (2) Electronics Lab PR: ECE 511** PR/Conc: ECE 526**
ECE 431 (3) Microcontrollers PR: ECE 241** PR: CIS 200 or 209**	ECE 512 (3) Linear Sys PR: ECE 511** PR: ECE 540**
ECE 526 (3) Electronics 2 PR: ECE 511** PR: ECE 525**	ECE 581 (3) Eng Conv 1 PR: ECE 410** or 519**

SENIOR

	H&SS (3) b.
ECE 590 (3) Senior Design Exp I PR: ECE 511**, 525**, 540** PR: ENGL 415**	ECE 591 (2) Senior Design Exp II PR: ECE 590
ECE 624 (3) Power Electronics PR: ECE 511 ** PR: ECE 525 **	Tech Elec (6) a.
ECE 685 (3) Power Sys Des PR: ECE 581**	ECE 684 (3) Power Lab PR: ECE 581** PR: ECE 624**
ECE 530 (3) Cont Sys Des PR: MATH 340** PR: ECE 512**	
Tech Elec (3) a.	

NOTE: PREREQUISITES ARE LISTED IN THE COURSE BLOCK.
a. Technical electives must be selected from the approved ECE Technical Electives List.
b. Humanities and Social Science (H & SS) electrives must be selected from the list of courses approved by the College of Engineering.
Students should select these courses as needed to complete the requirements for the K-State 8 Gen Ed Pgm.

** Denotes C or better must be earned in prerequisite course

Currently Enrolled Passed Retaken Failed Warning