

Electrical Engineering Energy Systems Track

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 221 227				PHYSICS PH 211/221 214			PH 212/222 215	PH 213/223 216	MATH/ SCI ELECT						
Engineering / Computer Science Requirements															
EXPLOR ELEC ECE 101	ENGR COMP ECE 102	ENGR PROGR ECE 103	ELEC CURCUIT ANALYSIS I ECE 221 201			ELEC CURCUIT ANALYSIS II ECE 222 202	ELEC CURCUIT ANALYSIS III ECE 223 203	ELECTRONICS I ECE 321 301		ELECTRONICS II ECE 322 302	SUSTAIN ABILITY ECE 325*	Track senior electives 4XX ENRGY SYST I ECE 441	ENRGY SYST II ECE 442	ECE 4XX (1)	
	DIGI CIRC ECE 171				DIGI SYST ECE 271 271 L		MICRO PROC ECE 371	FOURIER ANALYSIS ECE 312	FEEDBACK CONTROL ECE 311 311 L	ECE 4XX (1)	Start MS program (2) (2)				
							ENG EMAG I ECE 331	INTER FACE EMBED SYSTEM ECE 372	THERM ODYNA MICS ME 321	INDSTRY DESIGN PROCSS ECE 411	SR. PROJ DEVL P 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	CLUSTER: PRIV PUBLIC INVEST EC 314U	UNST UPPER DIVISION CLUSTER	UNST UPPER DIVISION CLUSTER

*The ECE department may offer a different course as a substitute for “ECE 325: Sustainability”. Students will be notified of any changes in a timely manner.

(1) List of track specific senior electives:	(2) Continuation to Graduate program:
ECE 451/2 Control Systems I, II	ECE 541 Transmission Operation and Control
ECE 465 DSP	ECE 542 Generation Operation and Control
ECE 455/6 Neural nets I, II	ECE 543 Electric Energy Systems Control
ECE 445/6 Power Electronics I, II	ECE 547 Energy Economic Systems
	ECE 548 Power System Protection
	+ courses remaining from the left column