

# ECE UNDERGRADUATE COURSE LIST

CRS #	CROSSLIST	COURSE TITLE	CR	Offered (F)all (S)pring	PRE-REQS	PRE or CO-REQS
101		Intro to Electrical and Computer Engineering	1	F S		
131		Programming Fundamentals	3	F S	Recommend MATH 121 or above	
203		Circuit Analysis I	3	F S	MATH 163 or ENG 120	PHYC 161
206L		Instrumentation	2	F S	ENGL 120	ECE 203
213		Circuit Analysis II	3	F S	ECE 203	ECE 300 or MATH 314 and 316
231		<i>Intermediate Progrmg and Eng Prob Solving</i>	3	F S	ECE 131	
238L		Computer Logic Design	4	F S	ECE 131	
300		Adv Eng Mathematics	4	F S	MATH 163	
314		Signals and Systems	3	F S	ECE 213, MATH 264	
321L		Electronics I	4	F	ECE 213	
322L		Electronics II	4	S	ECE 321L	
330		Software Design	3	S	ECE 231	
331		Data Structures and Algorithms	3	S	ECE 231, MATH 327	ECE 340
335		Integrated Software Systems	3	F	ECE 330	
338		Intermediate Logic Design	3	F	ECE 238L	
340		Probabilistic Methods in Engineering	3	F S	MATH 314 or ECE 300	ECE 314
341		Introduction to Communication Systems	3	F	ECE 314, ECE 340	
344L		Microprocessors	4	F S	ECE 206L, 238L, 321L	
345	ME 380	Introduction to Control Systems	3	FS	ECE 314	
360		Electromagnetic Fields and Waves.	3	S	ECE 213, PHYC 161, MATH 264	
371		Materials and Devices	3	F	PHYC 262	
381	595	Introduction to Electric Power Systems	3	S	ECE 213	
412	CS 412	Intro to Computer Graphics	3	F	ECE 331 or CS 361	
419		Senior Design I	3	F	Senior Standing	
420		Senior Design II	3	S	ECE 419	
421	523	Analog Electronics	3	F	ECE 322L	
424	520	Digital VLSI Design	3	S	ECE 321L, 338	
432	CS 442	Introduction to Parallel Processing	3	S	ECE 331 or CS 351L and CS 341L	
435		Software Engineering.	3	S	ECE 331	ECE 335
437	CS 481	Computer Operating Systems	3	F S	ECE 330 or CS 341L	
438		Design of Computers	3	S	ECE 338, 344L	
439		Introduction to Digital Signal Processing	3	F	ECE 314	
440	CS 485/585	Introduction to Computer Networks	3	F S	ECE 330	

*Pre/co-requisite changes in progress. Overrides may be needed. See undergraduate academic advisor for assistance.*

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442	595	Introduction to Wireless Communications	3	S	ECE 314, 360	
443		Hardware Design with VHDL	3	F	ECE 338	
446		Design of Feedback Control Systems	3	S	ECE 345	
460	560	Introduction to Microwave Engineering	3	F	ECE 360	
463	PHYC 463	Advanced Optics I	3	F	PHYC 302	
464	PHYC 464	Laser Physics	3	F	ECE 360 or PHYC 406	
469	569	Antennas for Wireless Com Sys	3	S	ECE 360	
471		Materials and Devices II	3	F	ECE 360, 371	
474L	574L ME 461/561	Microelectronics Processing	3	F	ECE 371	
475		Intro to Electro-Optics and Opto-Electronics	3	S	ECE 371	
482	582	Electric Drives and Transformers	3	S	ECE 213	
483	583	Power Electronics	3	F	ECE 321L, 371, 381	
484	584	Photovoltaics	3	S	ECE 381	
488	588	Future Energy Systems	3	F	ECE 482, 483, 484	