

BS/MS Electrical Engineering Shared Credit Option

Effective Fall 2015

Total credit hours: **143** ; All grades must be a C or better in the Electrical Engineering Program

MS: Total credit hours: 32; 9 credit hours (400 or above) are shared from BS

First Year			
Fall		Spring	
Course #	Credits	Course #	Credits
Math 162: Calculus I	4	Math 163: Calculus II	4
Phyc 160: General Physics I	3	Phyc 161: General Physics II	3
ECE 101: Intro to ECE	1	Phyc 161L: General Physics II Lab	1
ECE 131: Programming Fundamentals	3	Econ 105 or 106* Macro-Microeconomics	3
ENGL 110: Accelerated Composition	3	ENGL 120: Composition III	3
Total	14	Total	14
Second year			
Fall		Spring	
Course #	Credits	Course #	Credits
ECE 203: Circuit Analysis I	3	ECE 206L: Instrumentation	2
ECE 238L: Comp Logic Design	4	ECE 213: Circuit Analysis II	3
PHYC 262: General Physics III	3	ECE 300: Advanced Eng. Math	4
Math 264: Calculus III	4	Basic Science or Math Elective	3
English 219: Technical Writing	3	Humanities	3
Total	17	Total	15
Third Year			
Fall		Spring	
Course #	Credits	Course #	Credits
ECE 314: Signals and Systems	3	ECE 322L (ECE Completeness Course)	4
ECE 321L: Electronics I	4	ECE 344L: Microprocessors	4
ECE 340: Probabilistic Methods	3	ECE 360 (ECE Completeness Course)	3
ECE 371 (ECE Completeness Course)	3	ECE 381 (ECE Completeness Course)	3
Social/Behavioral Science	3	Humanities	3
Total	16	Total	17
Fourth Year			
Fall		Spring	
Course #	Credits	Course #	Credits
ECE 341 (ECE Completeness Course)	3	***ECE 420: Senior Design II	3
ECE 345 (ECE Completeness Course)	3	ECE Tech Elective (4xx)	3
***ECE 419: Senior Design I	3	ECE Track Elective (4xx)	3
ECE Track Elective (4xx)	3	Foreign Language	3
Fine Arts	3	¹ Graduate Major Core Course	3
Total	15	Total	15
Fifth Year			
Course #	Credits	Course #	Credits
¹ Graduate Major Core Course	3	¹ Graduate Major Core Course	3
Graduate Elective Course	3	² Graduate Minor Core Course	3
Graduate Elective Course	3	MS Project Course (ECE551)	3
ECE 590: Graduate Seminar	1	ECE 590: Graduate Seminar	1
Total	10	Total	10

Note:

Shared credits: 9 credit hours counted towards the MS degree. Must be 400 or above.

Graduate Courses: Must be 500 or above. Not more than 3 credit hours of ECE551.

*Course offered only in the Fall

**Course offered only in the Spring

*** Course designated for students with senior status only. Course prerequisites must be met for enrollment

¹ Each area has 3 Major Core Courses

² Minor core course: an ECE core course from any area outside of Major Area