

Electrical Engineering

Minor Guide for Non-Electrical Engineering Students

NOTES:

1. **Minors in Electrical Engineering are only available for non-EE students.**
2. Students pursuing a minor in EE must meet all pre-requisite expectations for all required coursework.
3. Students may be required to meet with EE advisor to gain access to required courses.
4. In the right hand columns, (★) denotes the model schedule for a full-time student, (a) denotes "tentatively available", and (•) denotes "not available"
5. **The course(s) on the right side of the guide denote a prerequisite or a co-requisite course.** A course number followed by "c", such as (PHY ####c), denotes a co-requisite (can or must be taken at the same time).

Electronics Minor Sem Grade (14 Credit hours required)						Pre-requisites	Fa	Sp	Su
EE	3210	3.0	___	___	Linear Systems I.....	(C or higher in EE 2010/L), (C or higher in CEG 2170), MTH 2310	a	★	•
EE	3310	3.0	___	___	Electronic Devices and Circuits.....	MTH 2300, (C or higher in EE 2010)	a	★	•
EE	3310L	1.0	___	___	Electronic Devices and Circuits Laboratory.....	EE 3310c	a	★	a
EE	4100	3.0	___	___	Micro/Nano fab Engineering.....	EE 3310/L, PHY 2400/L	★	•	a
EE	4440/L	4.0	___	___	Electronic Integrated Sys.....	EE 3210, EE 3310/L	•	★	•

VLSI Minor Sem Grade (15 Credit hours required)						Pre-requisites	Fa	Sp	Su
EE	2000	3.0	___	___	Digital Design with HDL	MPL 40 or MTH 1280 with a minimum grade of C	a	★	•
EE	2000L	1.0	___	___	Digital Design with HDL Laboratory....	(MPL 40 or MTH 1280 with a minimum grade of C), EE 2000c	a	★	•
EE	4100	3.0	___	___	Micro/Nano fab Engineering.....	EE 3310/L, PHY 2400/L	★	•	a
EE	4540/L	4.0	___	___	VLSI Design	EE 2000/L	★	a	•
EE	4620	3.0	___	___	Digital Integrated Circuit Design...	(C or higher in EE 2000/L), (C or higher in EE 3210 or CEG 3320)	a	★	a
EE	4620L	1.0	___	___	Digital Integrated Circuit Design Lab.....	EE 4620c	a	★	a

Controls Sem Grade (16 Credit hours required)						Pre-requisites	Fa	Sp	Su
EE	4130	3.0	___	___	Continuous Control Systems	(C or higher in EE 3210 or ME 3210), MTH 2310	★	a	•
EE	4130L	1.0	___	___	Continuous Control Systems Lab.....	EE 4130c	★	a	•
EE	4170	3.0	___	___	Digital Control Systems.....	EE 4130/L	•	★	•
EE	4170L	1.0	___	___	Digital Control Systems Lab.....	EE 4170c	•	★	•
Select Two									
EE	4120	3.0	___	___	Industrial Controls.....	EE 2000/L	★	a	a
EE	4120L	1.0	___	___	Industrial Controls Lab.....	EE 4120c	★	a	a
EE	4190	3.0	___	___	Intelligent Control Systems.....	EE 4130/L	★	•	•
EE	4190L	1.0	___	___	Intelligent Control Systems Lab.....	EE 4190c	★	•	•
EE	4560	3.0	___	___	Intro to Robotics.....	MTH 2350	★	•	•
EE	4560L	1.0	___	___	Intro to Robotics Lab.....	EE 4560Lc	★	•	•

Digital Signal Pro Sem Grade (16 Credit hours required)						Pre-requisites	Fa	Sp	Su
EE	3210	3.0	___	___	Linear Systems I.....	(C or higher in EE 2010/L), (C or higher in CEG 2170), MTH 2310	a	★	•
EE	3260	3.0	___	___	Random Signals and Noise.....	(C or higher in EE 4000), MTH 2350, EE3210	a	★	•
EE	4000	3.0	___	___	Linear Systems II.....	(C or higher in EE 3210), MTH 2310	★	a	•
EE	4210	3.0	___	___	Digital Communication	EE 4000	a	★	a
EE	4210L	1.0	___	___	Digital Communication Laboratory.....	EE 4210c	a	★	a
EE	4360	3.0	___	___	Digital Signal Processing.....	EE 4000	★	•	•

Microwave			Sem	Grade	(16 Credit hours required)	Pre-requisites	Fa	Sp	Su
EE	3450	3.0	—	—	Introduction to Electromagnetics.....(C or higher in EE2010/L), PHY 2410/L, MTH 2320		★	a	•
EE	3450L	1.0	—	—	Intro to Electromagnetics Laboratory	EE 3450c	★	a	•
EE	4420	3.0	—	—	Microwave Engineering I.....	EE 3450/L	•	★	•
EE	4420L	1.0	—	—	Microwave Engineering I Lab.....	EE 4420c	•	★	•
EE	4460/L	3.0	—	—	Microwave Engineering II.....	EE 4420/L	★	•	•
EE	4460L	1.0	—	—	Microwave Engineering II Lab.....	EE 4460c	★	•	•
EE	4470	3.0	—	—	Antenna Theory and Design.....	EE 4420/L	★	•	•
EE	4470L	1.0	—	—	Antenna Theory and Design Lab.....	EE 4470c	★	•	•