

Electrical Engineering, B.S.

Accredited by the Engineering Accreditation Commission of ABET, <https://www.abet.org/>

Course	Title	Semester Credit Hours
Freshman Year		
Semester 1		
CHEM 1311 & CHEM 1111	Gen Inorganic Chemistry I and Gen Inorganic Chem Lab I	4
CSEN 2304	Introd to Computer Science	3
ENGL 1301	Rhetoric and Composition	3
MATH 2413	Calculus I	4
GEEN 1201	Engineering as a Career ¹	2
Semester Credit Hours		16
Semester 2		
EEEN 2340	Digital Logic Design	3
ENGL 1302	Rhetoric and Composition	3
HIST 1301	American History to 1877	3
MATH 2414	Calculus II	4
PHYS 2325 & PHYS 2125	University Physics I and University Physics I Lab	4
Semester Credit Hours		17
Sophomore Year		
Semester 1		
EEEN 3449	Microprocessor Systems	4
HIST 1302	American History since 1877	3
MATH 3320	Differential Equations	3
PHYS 2326 & PHYS 2126	University Physics II and University Physics II Lab	4
POLS 2301	Government and Politics of US	3
Semester Credit Hours		17
Semester 2		
EEEN 2323	Network Analysis I	3
POLS 2302	Government and Politics of TX	3
Lang/Phil/Culture ²		3
Communication ³		3
Creative arts		3
Semester Credit Hours		15
Junior Year		
Semester 1		
EEEN 3321	Network Analysis II	3
EEEN 3325	Electronics I	3
EEEN 3334	Random Signals	3
MATH 3415	Calculus III	4
Social/Behavioral		3
Semester Credit Hours		16
Semester 2		
CEEN 3317	Engineering Economy	3
EEEN 3212	Circuits and Electronics Lab	2
EEEN 3324	Electromagnetics	3
EEEN 3333	Linear Systems and Signals	3

EEEN 4355	Digital Systems Engineering	3
MATH 4341	Linear Alg and Matrix Theory	3
Semester Credit Hours		17
Senior Year		
Semester 1		
EEEN 4252	Advanced Laboratory	2
EEEN 4342	Electronic II	3
EEEN 4354	Linear Control Systems	3
EEEN 4422	Electric Drives	4
Approved Elective ⁴		3
Semester Credit Hours		15
Semester 2		
EEEN 4224	Elec & Compu Eng Proj Lab (WI)	2
EEEN 4329	Communications Engineering	3
Approved Elective ⁴		3
Approved Elective ⁴		3
Approved Elective ⁴		3
Semester Credit Hours		14
Total Credit Hours Required:		127

¹ Pre-Engineering Students and Alternate Pre-Engineering Students are required to take UNIV 1201 instead of GEEN 1201.

² All general education elective courses must be chosen from the approved elective list, after discussions with the academic advisor.

³ COMS 2374 or ENGL 2374 is strongly recommended.

⁴ Approved major-related electives must be chosen as a sequence of courses to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.