

**REQUIREMENTS FOR THE DEGREE OF
BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**

**Fall 2025
(As per Undergraduate
Catalog 2025-2026)**

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

FRESHMAN YEAR

CHEM 1311/1111 General Inorganic Chemistry I and Lab 4 (prereq: MATH 1314, HS Chemistry or CHEM 1481)	EEEN 2340 Digital Logic Design (prereq: CSEN 2304)..... 3
CSEN 2304 Introduction to Computer Science..... 3 (Coreq: MATH 1314)	ENGL 1302 Rhetoric and Composition 3
ENGL 1301 Rhetoric and Composition 3	HIST 1301 American History to 1877 3
MATH 2413 Calculus I (prereq: MATH 1348) 4	MATH 2414 Calculus II (prereq: MATH 2413) 4
GEEN 1201 Engineering as a Career ¹ 2	PHYS 2325/2125 University Physics I and Lab 4 (prereq: PHYS 1305/1105; coreq: MATH 2413)
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16	17

SOPHOMORE YEAR

EEEN 3449 Microprocessor Systems (prereq: EEEN 2340)..... 4	EEEN 2323 Network Analysis I 3 (prereq: MATH 2414; coreq: PHYS 2326/2126, MATH 3320)
HIST 1302 American History since 1877 3	POLS 2302 Government & Politics of Texas 3
MATH 3320 Differential Equations (prereq: MATH 2414) 3	<i>Language/Philosophy/Culture</i> ² 3
PHYS 2326/2126 University Physics II and Lab 4 (prereq: PHYS 2325/2125; coreq: MATH 2414)	<i>Communication</i> ³ 3
POLS 2301 Government & Politics of U.S. 3	<i>Creative Arts</i> 3
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17	15

JUNIOR YEAR

EEEN 3212 Circuits and Electronics Lab 2	CEEN 3317 Engineering Economics (prereq: junior standing) 3
EEEN 3321 Network Analysis II 3 (prereq: EEEN 2323, CSEN 2304, MATH 3320)	EEEN 3324 Electromagnetics (prereq: PHYS 2326/2126, MATH 3320) 3
EEEN 3325 Electronics I 3 (prereq: EEEN 2323, PHYS 2326/2126)	EEEN 3333 Linear Systems and Signals (prereq: EEEN 3321)..... 3
EEEN 3334 Random Signals (prereq: MATH 2414) 3	EEEN 4342 Electronics II..... 3
MATH 3415 Calculus III (prereq: MATH 2414) 4	EEEN 4355 Digital Systems Engineering (prereq: EEEN 3325, EEEN 2340) 3
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15	----
	18

SENIOR YEAR

EEEN 4252 Advanced Laboratory 2 (prereq: EEEN 3212, EEEN 3321, EEEN 3449, Communications elective)	EEEN 4224 Electrical & Computer Engineering Projects Lab (WI) 2 (prereq: EEEN 4252)
EEEN 4354 Linear Control Systems (prereq: EEEN 3333)..... 3	EEEN 4329 Communications Engineering..... 3 (prereq: EEEN 3333, EEEN 3334)
EEEN 4422 Electric Drives (prereq: EEEN 3321) 4	Social/Behavioral..... 3
Approved Elective ⁴ 3	Approved Elective ⁴ 3
Approved Elective ⁴ 3	Approved Elective ⁴ 3
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15	14

Total Number of Hours: 127

Plan of Study Grid

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.