

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

Fall 2025
(As per Undergraduate
Catalog 2025-2026)

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 Composition3
ENGL 1301 Rhetoric and Composition 3	MATH 2414 Calculus II (prereq: MATH 2413)4
MATH 2413 Calculus I (prereq: MATH 1348) 4	PHYS 2325/2125 University Physics I and Lab4 (prereq: PHYS 1305/1105; coreq: MATH 2413)
GEEN 1201 Engineering as a Career ¹ 2	
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16	14

SOPHOMORE YEAR

EEEN 3449 Microprocessor Systems (prereq: EEEN 2340)..... 4	CSEN 2328 Data Structures and Algorithms3 (prereq: CSEN 2304)
MATH 3320 Differential Equations (prereq: MATH 2414) 3	EEEN 2323 Network Analysis I 3 (prereq: MATH 2414; coreq: PHYS 2326/2126, MATH 3320)
PHYS 2326/2126 University Physics II and Lab 4 (prereq: PHYS 2325/2125; coreq: MATH 2414)	MATH 3370 Discrete Math.....3
POLS 2301 Govt. & Politics of U.S. 3	POLS 2302 Govt. & Politics of Texas3
Communication ² 3	Language/Philosophy/Culture.....3
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17	15

JUNIOR YEAR

EEEN 3212 Circuits and Electronics Lab 2	CSEN 4362 Operating Systems 3 (prereq: EEEN 3449)
EEEN 3321 Network Analysis II 3 (prereq: EEEN 2323, CSEN 2304, MATH 3320)	EEEN 4355 Digital Systems Engineering (prereq: EEEN 3325, EEEN 2340)3
EEEN 3325 Electronics I 3 (prereq: EEEN 2323, PHYS 2326/2126)	MATH 3415 Calculus III4
EEEN 3334 Random Signals 3 (prereq: MATH 2414)	Social/behavioral ³3
EEEN 4344 Computer Architecture and Design 3 (prereq: EEEN 3449)	Creative Arts.....3
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14	16

SENIOR YEAR

CSEN 4201 Software Eng Project (prereq: senior standing) or	CSEN 4202 Software Eng Project (WI) or
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)
CSEN 4320 Computer Networks..... 3 (prereq: 6 hours of upper level CS)	HIST 1302 American History since 18773
HIST 1301 American History to 1877 3	EEEN 4358 Embedded Systems.....3 (prereq: EEEN 3449, EEEN 4355)
Approved Elective ⁶ 3	EECS Elective ⁴3
CSEN Elective ⁵ 3	EECS Elective ⁴3
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14	14

Total Number of Hours: 120

Plan of Study Grid

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

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

²COMS 2374 or ENGL 2374 is strongly recommended.

³ECON 2301 or ECON 2302 is strongly recommended.

⁴Approved CSEN or EEEN elective must be chose to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.

⁵Approved upper level CSEN elective must be chosen to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.

⁶CEEN 3317 or Approved CSEN or EEEN elective must be chosen to satisfy a professional objective and must be chosen with the consent of the academic advisor or the department chair.