

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Fall 2025
(As per Undergraduate
Catalog 2025-2026)

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

FRESHMAN YEAR

CHEM 1311/1111 General Inorganic Chemistry I and Lab4 (prereq: MATH 1314, HS Chemistry or CHEM 1481)	CSEN 2306 Object-Oriented Programming 3
CSEN 2304 Introduction to Computer Science3 (COREQ: MATH 1314)	ENGL 1302 Rhetoric and Composition 3
ENGL 1301 Rhetoric and Composition3	HIST 1301 American History to 1877 3
MATH 2413 Calculus I4 (prereq: MATH 1348)	MATH 2414 Calculus II 4 (prereq: MATH 2413)
GEEN 1201 Engineering as a Career ¹2	
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16	

SOPHOMORE YEAR

CSEN 2310 Object Oriented Software Eng3	CSEN 2328 Data Structures and Algorithms 3 (prereq: CSEN 2304)
HIST 1302 American History since 18773	POLS 2302 Government and Politics of U.S..... 3
MATH 3320 Differential Equation3 (prereq: MATH 2414)	<i>Creative arts</i> 3
PHYS 2325/2125 University Physics I and Lab.....4 (prereq: PHYS 1305/1105; coreq: MATH 2413)	<i>Lang/phil/culture</i> 3
POLS 2301 Government and Politics of US3	Approved Elective ³3
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16	16

JUNIOR YEAR

CSEN 3315 Computer Graphics3	CSEN 3314 Database Systems 3
EEEN 2340 Digital Logic Design3 (prereq: CSEN 2304)	CSEN 3316 Software Engineering I 3 (prereq: 6 semester hours of CS)
STAT 1342 Elementary Statistics3 (prereq: MATH 1314 or MATH 1324)	EEEN 3449 Microprocessor Systems 4 (prereq: EEEN 2340)
<i>Communication</i> ²3	MATH 3370 Discrete Mathematics..... 3
<i>Social/behavioral</i>3	Approved Elective ³3
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15	16

SENIOR YEAR

CSEN 4201 Software Engineering Project2 (prereq: senior standing)	CSEN 4202 Software Engineering Project (WI) 2 (prereq: senior standing)
CSEN 4317 Software Engineering II3 (prereq: CSEN 3316)	CSEN 4340 Computer Security 3 (prereq: CSEN 4320)
CSEN 4320 Computer Networks3 (prereq: 6 hours of upper level CS)	CSEN 4366 Programming Languages 3 (prereq: CSEN 2328)
EEEN 4344 Computer Architecture and Design3 (prereq: EEEN 3449)	CSEN 4362 Operating Systems 3
Approved Elective ³3	Approved Elective ³ 3
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14	14

Total Number of Hours: 120

Plan of Study Grid

1

Pre-Engineering Students and Alternate Pre-Engineering students are required to take [UNIV 1201](#) instead of [GEEN 1201](#).

2

[COMS 2374](#) or [ENGL 2374](#) is strongly recommended.

3

The approved electives must be selected with the consent of the student's adviser, and would normally be more advanced courses in computer science, information systems, mathematics, statistics or one of the sciences taken in the freshman and sophomore years. However, a meaningful sequence of courses in any discipline, such as engineering or agriculture, may be taken with the consent of the student's adviser, except that all such courses must be at the 2000-level or above.