

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE IN COMPUTER SCIENCE

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

FRESHMAN YEAR

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

SOPHOMORE YEAR

CSEN 2310 Object-Oriented Software Engineering3 <small>(prereq: CSEN 2304)</small>	CSEN 2328 Data Structures and Algorithms 3 <small>(prereq: CSEN 2304)</small>
HIST 1302 American History3	POLS 2302 Government and Politics of U.S..... 3
MATH 3320 Differential Equation3 <small>(prereq: MATH 2414)</small>	[^] Creative arts 3
PHYS 2325/2125 University Physics I and Lab.....4 <small>(prereq: PHYS 1305/1105; coreq: MATH 2413)</small>	[^] Lang/phil/culture 3
POLS 2301 Government and Politics of US.....3	Approved Elective**.....3
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16	-----
	16

JUNIOR YEAR

CSEN 3315 Computer Graphics3 <small>(prereq: CSEN 2304)</small>	CSEN 3314 Database Systems 3
EEEN 2340 Digital Logic Design3 <small>(prereq: CSEN 2304)</small>	CSEN 3316 Software Engineering I 3 <small>(prereq: 6 semester hours of CS)</small>
STAT 1342 Elementary Statistics3 <small>(prereq: MATH 1314 or MATH 1324)</small>	EEEN 3449 Microprocessor Systems 4 <small>(prereq: EEEN 2340)</small>
[^] Communication*3	MATH 3370 Discrete Math 3
[^] Social/behavioral3	Approved Elective**3
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15	16

SENIOR YEAR

CSEN 4201 Senior Project2 <small>(prereq: senior standing)</small>	CSEN 4202 Senior Project 2 <small>(prereq: senior standing)</small>
CSEN 4317 Software Engineering II3 <small>(prereq: CSEN 3316)</small>	CSEN 4340 Computer Security..... 3 <small>(prereq: CSEN 4320)</small>
CSEN 4320 Computer Networks.....3 <small>(prereq: 6 hours of upper level CS)</small>	CSEN 4362 Operating Systems..... 3 <small>(prereq: EEEN 3449)</small>
EEEN 4344 Computer Architecture and Design.....3 <small>(prereq: EEEN 3449)</small>	CSEN 4366 Programming Language..... 3 <small>(prereq: CSEN 2328)</small>
Approved Elective**3	Approved Elective** 3
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14	14

Total Number of Hours: 120

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

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

*COMS 2374, or ENGL 2374 is strongly recommended.

**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.

[^]For courses listed under Core Curriculum "Components" see "General Requirements for Graduation with a Baccalaureate Degree" in an earlier section of this Catalog.

General Education Electives

* Recently added to the general education electives list

^Creative Arts

ARTS 1303, ARTS 1304

MUSI 1305, MUSI 2306, MUSI 2308, MUSI 2310. MUSI 2320

THEA 2310

^Language, Philosophy and Culture

ANTH 2302

ENGL 2342, ENGL 2362

FREN 1311, FREN 1312, FREN 2311, FREN 2312

HIST 2321, HIST 2322

PHIL 1301

SPAN 1313, SPAN 1314, SPAN 1373, SPAN 2301, SPAN 2302,

SPAN 2311, SPAN 2312

WGST 1301

^Communication

COMM 1307

COMS 1311, COMS 1315, COMS 2374

ENGL 2374 (recommended)

^Social/Behavioral

ANTH 2301

ECON 2301, ECON 2302

EDKN 2335

EVEN 2372

HSCI 2323

POLS 2304, POLS 2340

PSYC 2301

SOCI 1301, SOCI 1306, SOCI 2361