# COMPUTER SCIENCE 

# For students who ARE required to take FYS 

Catalog Term: Fall 2024
Last updated: 1/30/2024

| 15 | FRESHMAN |
| :---: | :---: |
| FALL | SPRING |
| ENGL 101 (3) <br> College English I <br> Grade C- or better | ENGL 102 (3) <br> College English II |
| MATH 242 (5) |  |
| Calculus I |  |
| Grade C- or better |  |


| 17 SOPHOMORE 15 |  |
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| FALL | SPRING |
| COMM 111 (3) <br> Public Speaking <br> Grade C-or better | CS 356 (3) <br> Introduction to Cybersecurity <br> Prereq: CS 211 <br> Grades C- or better |
| MATH 321/ CS 321 (3) Discrete Structures I <br> Prereq: MATH 242 or equivalent Grade C or better | MATH 322 / CS 322 (3) Discrete Structures II <br> Prereq: MATH 321 Grade C or better |
| PHYS 313 (4) Physics for Scientist I Cncprereq: MATH 243 Grade C or better | PHYS 314 (4) <br> Physics for Scientist II <br> Prereq: MATH 243 Grade C or better <br> and PHYS 313 Grade C -or better |
| CS 311 (4) Object-Oriented Programming <br> Prereq: CS 211 Grade C- or better | PHYS 316 (1) University Physics Lab II Cncprereq: PHYS 314 |
| ECE 238 (3) [CS 238] <br> Assembly Language Programming <br> Prereq: CS 211 Grade C- or better | CS 400 (4) <br> Data Structures <br> Prereq: CS 311 Grade C- or better |
|  | Engineering+ Requirement (1 of 3) |


| 15 | JUNIOR |
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| FALL | SPRING |
| IME 254 (3) <br> Engineering Probability \& Satistics I <br> Prereq: MATH 243 or MATH 252 <br> Grade C or better | PHIL 354 (3) <br> Ethics and Computers <br> Prereq: Junior standing or <br> Departmental conset Note c |
| General Education <br> SB/FA (3) <br> Note b | MATH 511 (3) <br> Linear Algebra |
| CS 580 (3) | Prereq: MATH 243 |
| Grade C or better |  |



NOTES: (a) At least 12 of the 15 Technical Elective hours must be from the SoC or ECE. Up to 2 credit hours of Co-op courses can be used as non-departmental technical electives. (b) One of the General Education courses listed must be from FA, the other from SB; both must be from an approved list of courses. (c) PHIL 354 fulfils HU requirement. (d) CS 599 can only be taken if student received a C- or better in CS 598 in exactly the previous long semester. All prerequisites for SoC/ECE courses must be passed with a $\mathbf{C}$ - or better.
Legend: General Education: FA = Fine Arts. $\mathrm{SB}=$ Social and Behavioral Sciences. $\mathrm{HU}=$ Humanities. MS $=$ Mathematics and Natural Sciences.
Prereq $=$ Prerequisite. Cncprereq = Concurrent prerequisite (pre- or co-requisite). $\mathrm{SoC}=$ School of Computing. $\mathrm{ECE}=$ Electrical and Computer Engineering.

