COMPUTER SCIENCE B.S.CS.

All students must meet the University Requirements.

A minimum of 120 credits are required and must include the following:

Computer Science (minimum forty-four credits, maximum sixty credits)

Recommended: 1
CS 050 Seminar for New CS Majors 1
Core: 26
CS 021 Computer Programming I 3
CS 064 Discrete Structures 3
CS 110 Intermediate Programming 4
CS 121 Computer Organization 3
CS 124 Data Structures & Algorithms 3
CS 125 Computability and Complexity 3
CS 201 Operating Systems 3
CS 224 Algorithm Design & Analysis 3
or CS 243 Theory of Computation

CS 292 Senior Seminar 1

Eighteen additional credits, including three at the 0XX-level (or above), three at the 1XX-level (or above), and twelve credits at the 2XX-level 18

Mathematics (fourteen credits)

MATH 021 Calculus I 4
MATH 022 Calculus II 4
Choose two of the following: 6-7
MATH 121 Calculus III
MATH 124 Linear Algebra
MATH 173 Basic Combinatorial Theory
MATH 271 Adv Engineering Mathematics

Statistics (three to six credits)

STAT 143 Statistics for Engineering 3
or one course in statistics (e.g. STAT 141) and one course in probability (e.g. CS 128 or STAT 151)

Natural Science (thirteen credits)

Chosen from courses in astronomy, biology (or BioCore), chemistry, environmental science, geology, microbiology and molecular genetics, plant biology, or physics, including one of the following laboratory science sequences:

| BIOL 001 & BIOL 002 | Principles of Biology and Principles of Biology |
| or BCOR 011 & BCOR 012 | Exploring Biology and Exploring Biology |
| CHEM 031 & CHEM 032 | General Chemistry 1 and General Chemistry 2 |
| or CHEM 035 & CHEM 036 | General Chemistry for Majors 1 and General Chemistry for Majors 2 |
| PHYS 031 & PHYS 125 | Physics for Engineers I and Physics for Engineers II |
| or PHYS 051 & PHYS 152 | Fundamentals of Physics I and Fundamentals of Physics II |

Writing (three credits)

ENGS 001 Written Expression 3
or ENGS 050 Expository Writing
or ENGS 053 Intro to Creative Writing

Fine Arts, Humanities and Social Sciences (eighteen credits)

Chosen from courses in ALANA U.S. Ethnic Studies; anthropology; art history; art studio; classics; communication sciences and disorders; dance; economics; English; Film and Television Studies; foreign language; geography; global and regional studies; history; Holocaust Studies; linguistics; music; philosophy; political science; psychology; religion; sociology; theatre; Gender, Sexuality, and Women’s Studies; and World Literature 18

Credits used to fulfill the university’s diversity requirement (one three-credit course Diversity Category 1 and a second three-credit course from Diversity Category 1 or 2) may also be applied to the above distribution requirements as appropriate.

Students must complete a university approved minor (excluding computer science); courses used to fulfill the minor can also satisfy other requirements.

No more than three grades of D+, D, or D- in computer science courses numbered CS 124 and higher.