Recommended Sequence of Courses – B.S., Computer Science

The following shows a four-year path to graduation.

First Semester
16 credits
ENGL 11000: Freshman Composition (3 cr.)
MATH 20100: Calculus I (3 cr.)
CSC 10300: Introduction to Computing for Majors (3 cr.)
SPCH 11100: Foundations of Speech Communication (3 cr.)
Science Elective (4 cr.)

Second Semester
15 credits
CSC 10400: Discrete Mathematical Structures (4 cr.)
CSC 11300: Programming Language (1 cr.)
MATH 20200: Calculus II (3 cr.)
Science Elective (4 cr.)
Liberal Arts Elective (3 cr.)

Third Semester
16 credits
CSC 21100: Fundamentals of Computer Systems (3 cr.)
CSC 21200: Data Structures (3 cr.)
CSC 21700: Probability and Statistics for Computer Science (3 cr.)
MATH 20300: Calculus III (4 cr.)
ENGL 21007: Writing for Engineering (3 cr.)

Fourth Semester
15 credits
CSC 22000: Algorithms (3 cr.)
CSC 22100: Software Design Laboratory (3 cr.)
ENGR 27600: Engineering Economics (3 cr.)
OR
ECO 10400: Intro to Quantitative Economics (3 cr.)
MATH 34600: Elements of Linear Algebra (3 cr.)
Liberal Art Elective (3 cr.)

Fifth Semester
17 credits
CSC 30100: Numerical Issues in Scientific Programming (3 cr.)
CSC 30400: Introduction to Theoretical Computer Science (3 cr.)
CSC 32200: Software Engineering (4 cr.)
CSC 33500: Programming Language Paradigms (3 cr.)
Science Elective (4 cr.)
Sixth Semester
17 credits
CSC 33200: Operating Systems (4 cr.)
CSC 33600: Introduction to Database Systems (3 cr.)
CSC 34200: Computer Organization (3 cr.)
CSC 34300: Computer Organization Lab (1 cr.)
CSC Elective (3 cr.)
Liberal Arts Elective - 20000 - level or higher (3 cr.)

Seventh Semester
15 credits
CSC 59866: Senior Project I (3 cr.)
Two CSC Electives (6 cr.)
Technical Elective (3 cr.)
Liberal Arts Elective - 20000 - level or higher (3 cr.)

Eighth Semester
15 credits
CSC 59867: Senior Project II (3 cr.)
CSC Elective (3 cr.)
Technical Elective (3 cr.)
2 Free Electives (6 cr.)