



4-Year Academic Plan: Computer Science

The following is a **sample** outline demonstrating 4-year completion of this bachelor's degree. Each student's reality will vary slightly, as this plan does not include transfer work, Advanced Placement (AP), or concurrent enrollment credits. Math and English placement will be based on the student's ACT/SAT scores. **PLEASE NOTE:** The following plan assumes students are prepared to take the Math course listed. If prerequisites are required, additional semesters may be required to complete degree.

*While every effort has been made to align this sample with departmental offerings and recommendations, **this is a GUIDE ONLY.** Please meet with your academic advisor and consult DegreeWorks for specifics.*

<p>1st Year Fall (15 credits) MATH 1210 Calculus (4) CSIS 1400 Fundamentals of Programming* (3) CSIS 1000 Intro to Computers & Internet (3) ENGL 1010 Intro to Academic Writing (3) EDGE 1010 Becoming an Engaged Learner (1)</p>	<p>1st Year Spring (15 credits) CSIS 1410 Object Oriented Programming (3) MATH 1220 Calculus II (4) CSIS 1010 E-Commerce & Global Society (3) EET 2750 PC Hardware (3) ENGL 2010 Intermediate Writing (3) LM 1010 Information Literacy (1)</p>
<p>2nd Year Fall (17 credits) CSIS 2600 Data Communication & Networking (3) CSIS 2420 Intro to Algorithms & Data Structures (3) CSIS 3200 Database Design & Management (3) EET 2780 Digital Electronics I (3) BIOL 1610/1615 General Biology I/Lab (4)</p>	<p>2nd Year Spring (17 credits) CSIS 2300 Discrete Structures (3) CSIS 2810 Computer Org. & Architecture (3) CSIS 3600 Operating Systems (3) Computer Science Upper Division Elective* (3) CHEM 1210/1215 or PHYS 2210/2215 (5)</p>
<p>3rd Year Fall (17-18 credits) CSIS 2450 Software Engineering (3) CSIS 3650 Network Security (3) MATH 2270 Linear Algebra w/ Applications (3) EET 3780 Applications of Microprocessors (3) Second Semester of BIOL, CHEM, or PHYS* (4/5) EDGE 30XX* Project Proposal & Planning (1)</p>	<p>3rd Year Spring (15 credits) CSIS 3000 Adv. Algorithms & Data Structures (3) CSIS 3100 System Analysis & Design (3) CSIS 3550 Foundations of Comp Theory (3) Computer Science Upper Division Elective* (3) American Institutions (3)</p>
<p>4th Year Fall (16 credits) CSIS 3150 C& C++ Programming (3) CSIS 4550 Programming Languages (3) MATH 3700 Probability & Statistics (4) Computer Science Upper Division Elective*(3) Fine Arts Knowledge Area (3)</p>	<p>4th Year Spring (13 credits) CSIS 4800 CS Capstone Project (3) Computer Science Elective* (3) Computer Science Elective* (3) Humanities Knowledge Area (3) EDGE 40XX* Project Reporting & Reflection (1)</p>

Color Key:

General Education Courses (green)

Major-required courses that also fulfill GE requirement (purple)

Major Courses (black)

Electives/minor/etc. (red)

EDGE Program Course (orange)

Other Notes:

➤ (*) indicates available options—see catalog