



BACHELOR OF SCIENCE IN

## Computer Science

Undergraduate Degree Requirements | [www.sci.pitt.edu](http://www.sci.pitt.edu) | [www.cs.pitt.edu](http://www.cs.pitt.edu)

Our Bachelor of Science in Computer Science (BSCS) degree introduces you to a scientific and practical approach to computation and its applications. In this degree program, you will learn about the theory, experimentation, and engineering that form the basis for the design and use of computers.

The following are the requirements to fulfill the BSCS degree. You will also have the ability to focus your studies to areas such as artificial intelligence, software engineering, data science, security, or high performance systems.

Total credits for major: **39-40** plus a capstone course

### REQUIRED COURSES

#### CORE - 16 CREDITS

CS 0401 Intermediate Programming Using Java (*\*Also fulfills Dietrich School of Arts & Sciences Quantitative requirement*)  
CS 0441 Discrete Structures for Computer Science  
CS 0445 Data Structures  
CS 0447 Computer Organization and Assembly Language  
CS 0449 Introduction to Systems Software

#### REQUIRED UPPER LEVEL COURSES – 9 CREDITS

CS 1501 Algorithm Implementation  
CS 1502 Formal Methods in Computer Science  
CS 1550 Introduction to Operating Systems

#### REQUIRED MATH AND STATISTICS – 11-12 CREDITS

MATH 0220 Calculus 1  
MATH 0230 Calculus 2

STAT 1000 Applied Statistical Methods **OR**  
STAT 1100 Statistics and Probability for Business Management  
**OR**  
STAT 1151 Introduction to Probability

#### ELECTIVE UPPER LEVEL COURSES – 15 CREDITS

Regular CS courses – 1000 level or higher (*internships, directed studies, CS 1640, and CS capstone courses may NOT be used as elective major courses*).

#### CAPSTONE – 2-3 CREDITS

CS 1900 Internship  
CS 1950 Directed Research  
CS 1980 Team-Based Project Design / CS 1981 Project Studio  
ENGR 1093 Cooperative Education Program

### GRADE REQUIREMENTS

**All Courses:** A grade of C or better is required in all computer science, mathematics, and statistics courses utilized to fulfill the major. A minimum GPA of 2.0 in all courses taken is required for graduation. All grades are calculated into the overall GPA unless a course is repeated. If a course completed for the major does not meet grade requirements, the credits will not be counted toward the major.

**Satisfactory/No Credit option:** Only Math and Statistics courses may be taken for S/NC credit.

### CONTACT

Contact [sciadmit@pitt.edu](mailto:sciadmit@pitt.edu) with any questions regarding this degree program or admissions to the School of Computing and Information.