

# Computer Science

## Sample Course Sequence

First Semester – 16 credits	Second Semester – 16 credits
Object-Oriented Programming with Java (4) Calculus 1 (3) Foundations of Writing (3) General Education (3) General Education (3)	Graphical User Interfaces in Java (4) Calculus 2 (3) Database Design (3) Public Speaking (3) General Education (3)

Third Semester – 17 credits	Fourth Semester – 17 credits
Advanced Java (4) Discrete Mathematics (3) C and Assembly Language Programming <sup>1</sup> (3) Lab Science 1 (4) Technical Writing (3)	Data Structures using C++ (4) Probability and Statistics (3) Computer Organization (3) Lab Science 2 (4) General Education (3)

Fifth Semester – 15 credits	Sixth Semester – 16 credits
Algorithms and Data Structures (3) Organization of Programming Languages (3) Computer Ethics, Social Impact & Security (3) Math/Science Elective (3) CS Elective (3)	Operating Systems (3) CS Elective (3) Math Elective (3) General Education (3) Science Elective (4)

Seventh Semester – 12 credits	Eighth Semester – 12 credits
CS Elective (3) General Education (3) Free Elective (3) Free Elective (3)	Object-Oriented Software Engineering (4) Free Elective (3) Free Elective (3) Free Elective (2)

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<sup>1</sup> Previously named *Embedded Systems Languages* (COMPSCI 240).