

# Course Paths for Computer Science

## Foundation Courses

Course	Course Name	Category	Prerequisites
CSCI 243	Discrete Math and Functional Programming	Abstraction and Theory	None
CSCI 235	Programming I: Problem Solving	Programming	None
CSCI 245	Programming II: Object-Oriented Design	AA	CSCI 235

## Core Courses

Course	Course Name	Category	Prerequisites
CSCI 345	Data Structures and Algorithms	Abstraction and Theory	CSCI 243, CSCI 245
CSCI 335	Software Development	Applications	CSCI 243, CSCI 245
CSCI 351	Introduction to Computer Systems	Systems	CSCI 245

## Electives

Course	Course Name	Category	Prerequisites
CSCI 357	Networking	Abstraction and Theory, Systems	CSCI 351
CSCI 381	Machine Learning	Applications	CSCI 345
CSCI 365	Programming Language Concepts	Abstraction and Theory, Systems	CSCI 335, CSCI 351
CSCI 371	Databases	Applications	CSCI 335, CSCI 345
CSCI 384	Computational Linguistics	Applications	CSCI 345
CSCI 394	Seminar (Topics Vary)	Various	
CSCI 445	Analysis of Algorithms	Abstraction and Theory	CSCI 345
CSCI 455	Operating Systems	Systems	CSCI 335, CSCI 351

## Capstone Course

Course	Course Name	Category	Prerequisites
CSCI 494	Social and Ethical Issues	Professional Issues	