Track Listings

*These can be used as a guideline for B.S. students to build on their core courses and for B.A. students when planning their program of study. Courses listed are those within each track that have been offered in the past few years.*

**Artificial Intelligence and Machine Vision**

CSC 246: Machine Learning

CSC 249: Machine Vision

CSC 259: Computer Imaging & Graphics

CSC 245 Deep Learning

CSC 266 Frontiers in Deep Learning

CSC 277 End-to-End Deep Learning

**Natural Language Understanding**

CSC 246: Machine Learning

CSC 247: Natural Language Processing

CSC 248: Statistical Speech and Language Processing

CSC 241: Intro to Computational Neuroscience

**Human-Computer Interaction**

CSC 131: Recreational Graphics

CSC 186: Video Game Development

CSC 210: Web Programming

CSC 211: Introduction to HCI

CSC 212: Human-Computer Interaction

CSC 214: Mobile Application Development

CSC 261: Database Systems

CSC 216: AR/VR Interaction Design

CSC 260: Technology & Climate Change

**Theory of Computation**

CSC 281: Cryptography

CSC 283: Advanced Cryptography

CSC 284: Advanced Algorithms

CSC 285: Algorithms and Elections

CSC 286: Computational Complexity

CSC 287: Advanced Modes of Computation

CSC 288: Analytic Methods of Computer Science

CSC 289: Algorithmic Game Theory

CSC 279: Computational Geometry

**Computer Systems**

CSC 255: Advanced Programming Systems

CSC 256: Operating Systems

CSC 257: Computer Networks

CSC 258: Parallel and Distributed Systems

CSC 263: Data Management Systems

CSC 253: Collaborative Programming & Software Design

CSC 293: CS Improves: Tools for 3D Printed Manufacturing

**Computer Security**

CSC 257: Computer Networks

CSC 278: Computer Security Foundations

CSC 281: Cryptography

CSC 283: Topics in Cryptography

CSC 299: Social Implications of Computing