

Track Listings

These can be used as a guideline for B.S. students to build on their core courses, and for B.A. students to build their track which must include a series of three courses.

NOTE: Consult B.A. and B.S. degree requirements and policies when reviewing tracks. Non-CSC courses may only be used as part of a BA track.

Artificial Intelligence and Machine Vision

CSC 244: Logical Foundations of AI
CSC 246: Machine Learning
CSC 249: Machine Vision
CSC 292: Mobile Visual Computing

Natural Language Understanding

CSC 244: Logical Foundations of AI
CSC 246: Machine Learning
CSC 247: Natural Language Processing
CSC 248: Statistical Speech and Language Processing
BCSC 152: Language and Psycholinguistics
BCSC 259: Language Development
BCSC 261: Language Use and Understanding
LING 210: Introduction to Language Sound Systems
LING 220: Introduction to Grammatical Systems

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: Topics in Cryptography
CSC 284: Advanced Algorithms
CSC 285: Algorithms and Elections
CSC 286: Computational Complexity
CSC 287: Advanced Modes of Computation
MATH 248: Graph Theory

Computer Systems

CSC 255: Advanced Programming Systems
CSC 256: Operating Systems
CSC 257: Computer Networks
CSC 258: Parallel and Distributed Systems
ECE 201: Advanced Computer Architecture

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

Computational Science

CSC 258: Parallel and Distributed Computing
CSC 261: Database Systems
CSC 292: Mobile Visual Computing
PHYS 256: Computational Physics
OPT 211: MATLAB for Optics Majors
BME 221: Biomedical Computation and Statistics