

Computer Science Focus Areas

Course selection should be done under academic advisement

Network & Security

Computer Architecture
Operating Systems
Computer Networking
Computer and Network Security
Topics: Cryptography and Cybersecurity
Topics: Secure Coding
Topics: Information Systems Security
Topics: Smart Grid Communication Networks
Focused Capstone



Data Science

Statistical Inference
Data Mining & Predictive Modeling
Database Systems
Information Retrieval
Machine Learning
Natural Language Processing
Focused Capstone



Software Engineering

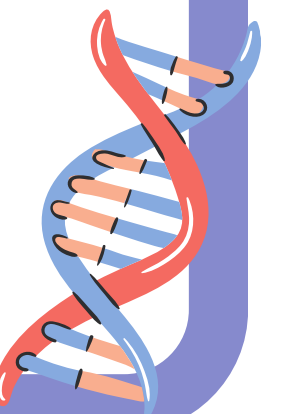
Database Systems
Human Computer Interaction
Software Engineering
Programming Languages
Focused Capstone



Foundational Courses

Computational Biology

Statistical Inference
Foundations of Computational Biology
Algorithms in Computational Biology
Genomics and Bioinformatics
Focused Capstone



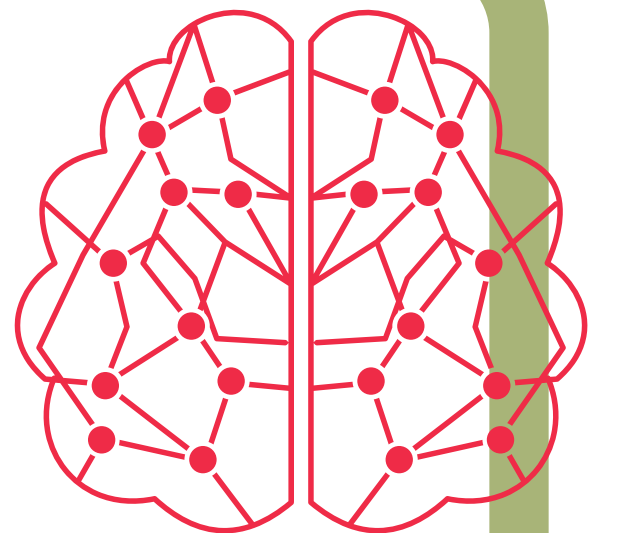
Computer Graphics and Game Development

Linear Algebra
Statistical Inference
Computer Graphics
Human Computer Interaction
3D Game Development
Topics: Computer Vision and Multimedia Applications
Focused Capstone



Artificial Intelligence

Statistical Inference
Human Computer Interaction
Artificial Intelligence
Machine Learning
Natural Language Processing
Theory of Computation
Topics: Computer Vision and Multimedia Applications
Focused Capstone



See the Computer Science Department website for full list of courses, including course numbers