

# Computer Science Focus Areas

## Data Science

MAT 128: Calculus B  
STA 215: Statistical Inference  
CSC 307: Data Mining & Predictive Modeling  
CSC 315: Database Systems  
CSC 320: Information Retrieval  
CSC 470: Topics: Natural Language Processing  
Focused Capstone

## Network & Security

CSC 325: Computer Architecture  
CSC 345: Operating Systems  
CSC 360: Computer Networking  
CSC 450: Computer and Network Security  
Focused Capstone

## Software Engineering

CSC 315: Database Systems  
CSC 415: Software Engineering  
CSC 435: Programming Languages  
CSC 470: Topics: Human Computer Interaction  
Focused Capstone

## CORE

CSC 220: Comp. Problem Solving  
CSC 230: Data Structures  
CSC 270: Discrete Structures  
CSC 335: Analysis of Algorithms

## CORE

## Computational Biology

CSC 470: Algorithms in Computational Biology  
CSC 471: Genomics and Bioinformatics  
Focused Capstone

## Artificial Intelligence

STA 215: Statistical Inference  
CSC 380: Artificial Intelligence  
CSC 445: Theory of Computation  
CSC 470: Topics: Natural Language Processing  
CSC 470: Topics: Human Computer Interaction  
Focused Capstone

## Computer Graphics & Game Design

MAT 205: Linear Algebra  
STA 215: Statistical Inference  
CSC 350: Computer Graphics  
IMM 360: Games I: Design and Architecture  
IMM 460: Games II: Implementation and Project Management  
CSC 470: Topics: Mobile Application Development  
CSC 470: Topics: Human Computer Interaction  
Focused Capstone

