CS specific courses

In this section

This section contains CS core and technical electives, as well as a list of courses that still need to be written.

Courses currently covered

Below are the courses with entries. Note the labels for each class; advanced electives are categorized according to the CS advising wiki. You can click on each label to see similar courses offered by the department.

- CS 173 - Discrete Structures
  - cs-core
  - ce-core
- CS 210 - Ethical and Professional Issues
  - cs-core
- CS 225 - Data Structures
  - cs-core
  - ce-core
- CS 241 - System Programming
  - cs-core
- CS 357 (MATH 357) - Numerical Methods I
  - cs-core
- CS 374 (ECE 374) - Algorithms and Models of Computation
  - cs-core
  - ce-core
- CS 411 - Database Systems
  - cs-elective
  - cs-intelligence-big-data
- CS 412 - Introduction to Data Mining
  - cs-elective
  - cs-intelligence-big-data
- CS 418 (CSE 427) - Interactive Computer Graphics
  - cs-elective
  - cs-media
- CS 419 - Production Computer Graphics
  - cs-media
  - cs-elective
- CS 421 - Programming Languages & Compilers
  - cs-core
- CS 423 (CSE 423) - Operating Systems Design
  - cs-elective
  - cs-distributed-networking-security
- CS 424 - Real-Time Systems
  - cs-elective
  - cs-distributed-networking-security
- CS 425 (ECE 428) - Distributed Systems
  - cs-elective
  - cs-distributed-networking-security
- CS 426 - Compiler Construction
  - cs-elective
  - cs-machines
- CS 431 - Embedded Systems
  - cs-elective
  - cs-machines
- CS 433 - Computer System Organization
  - cs-elective
  - cs-machines

Some articles have not been updated recently. If you find stale information, please edit the article!
• CS 438 (ECE 438) - Communication Networks
  • cs-elective
  • cs-distributed-networking-security

• CS 440 (ECE 448) - Artificial Intelligence
  • cs-elective
  • cs-intelligence-big-data

• CS 446 - Machine Learning
  • cs-elective
  • cs-intelligence-big-data

• CS 450 (ECE 491, MATH 450, CSE 401) - Numerical Analysis
  • cs-elective
  • cs-scientific-parallel-computing

• CS 460 (ECE 419) - Security Laboratory
  • cs-elective
  • cs-distributed-networking-security
  • cs-human-social-impact

• CS 461 (ECE 422) - Computer Security I
  • cs-elective
  • cs-distributed-networking-security

• CS 463 (ECE 424) - Computer Security II
  • cs-human-social-impact
  • cs-elective
  • cs-distributed-networking-security

• CS 465 - User Interface Design
  • cs-human-social-impact
  • cs-elective
  • cs-media

• CS 473 (CSE 414, MATH 473) - Fundamental Algorithms
  • cs-algorithms-models-of-computation
  • cs-elective

• CS 498 SL - Virtual Reality
  • cs-elective
  • cs-media

• ECE 408 (CS 483) - Applied Parallel Programming
  • cs-scientific-parallel-computing
  • cs-elective

Courses that need contribution

Below are the courses that have yet to be written. Feel free to click the link to begin writing the page. Before you begin to write, please check out the Writing Guidelines and Procedure for Contributing.

When you’re finished, please tag your article with a label to have your article displayed on the “Courses currently covered” section.

Currently, all CS required classes carry the tag cs-core, and all electives carry the tag cs-elective and their respective elective categories according to the CS advising wiki.
☐ CS 466 - Introduction to Bioinformatics
☐ CS 467 - Social Visualization
☐ CS 468 - Tech and Advertising Campaigns
☐ CS 482 - Simulation
☐ CS 484 - Parallel Programming
☐ CS 494 - Senior Project 2