Prerequisite Flowchart: B.S. in CS

Required CS courses:
- CS 160, 161 Computer Science 1, 2
- CS 222 Discrete Mathematics
- CS 335, 336 Theoretical Computer Science 1, 2
- CS 372 Comparative Programming Languages
- CS 373 Assembly Programming
- CS 374 Computer Organization
- CS 366 Files for Database Systems
- CS 445 Software Projects
- CS 467 Algorithm Analysis
- CS 474 Principles of Operating Systems
- CS 489 Social Implications of Computers

Required Math and Statistics courses:
- Math 165, 166 Calculus 1, 2
- Stat 367, 368 Probability and Statistics

Upper-division CS electives (468 or 475, and 3 more chosen from at least 2 categories):
- Software Engineering:
  - CS 413 Intro to Software Engineering
  - CS 477 Object-oriented Systems
  - CS 488 Human-Computer Interaction

- Large Systems:
  - CS 426 Artificial Intelligence
  - CS 458 Microcomputer Graphics
  - CS 459 Computer Networks
  - CS 468 Database Systems Design
  - CS 475 Operating Systems Design

- Systems Modeling:
  - CS 418 Simulation Models
  - CS 453 Linear Programming and Network Flows

- Emerging Areas:
  - CS 345 Topics in Personal Computers
  - CS 469 Network Security
  - CS 476 Computer Forensics
  - CS 473 Foundations of the Digital Enterprise
  - CS 479 Introduction to Data Mining

* also requires CS 214  ** also requires Math 265  *** one of CS 468, CS 475 is required; the other may be used as an upper-level elective
**** requires CS 366, CS 468, or CS 765