

Advising Sheet for CS Majors

Last Update: June 2014

Please fill out this form completely prior to your advising appointment.

Name: _____

Current Year: FR SO JR SR

Sem. Of Grad: F/S _____

CAS Requirements Indicate all courses taken or current and circle (filling in when not explicitly listed) the courses you propose to take next semester.

WR 100: _____ WR 150: _____ (Check, circle, or leave blank)

Foreign Language (4th sem. level): _____ (or bilingual, SAT, or AP)

Divisional Studies (see undergraduate bulletin for exact requirements):

HU: _____ HU: _____ SS: _____ SS: _____

NS (lab): _____ NS: _____

CS Concentration Requirements Indicate all courses taken or current and circle (filling in when not explicitly listed) the courses you propose to take next semester. For completed courses, indicate your grade.

MS 123 or equiv. experience: _____

Group A: **Take all of the following courses.**

CS 111: _____ CS 112: _____ CS 131: _____

CS 210: _____ CS 330: _____

Group B: **Take at least two.**

CS 132 or MA 294: _____ CS 235 or MA 294: _____ CS 237: _____

Group C: **Take at least two.**

CS 320: _____ CS 332: _____ CS 350: _____

Group D: **Take at least four at the 400- and 500-levels, making sure to take at least 15 courses across Groups A, B, C, and D.**

CS _____: _____ CS _____: _____ CS _____: _____

CS _____: _____ CS _____: _____ CS _____: _____

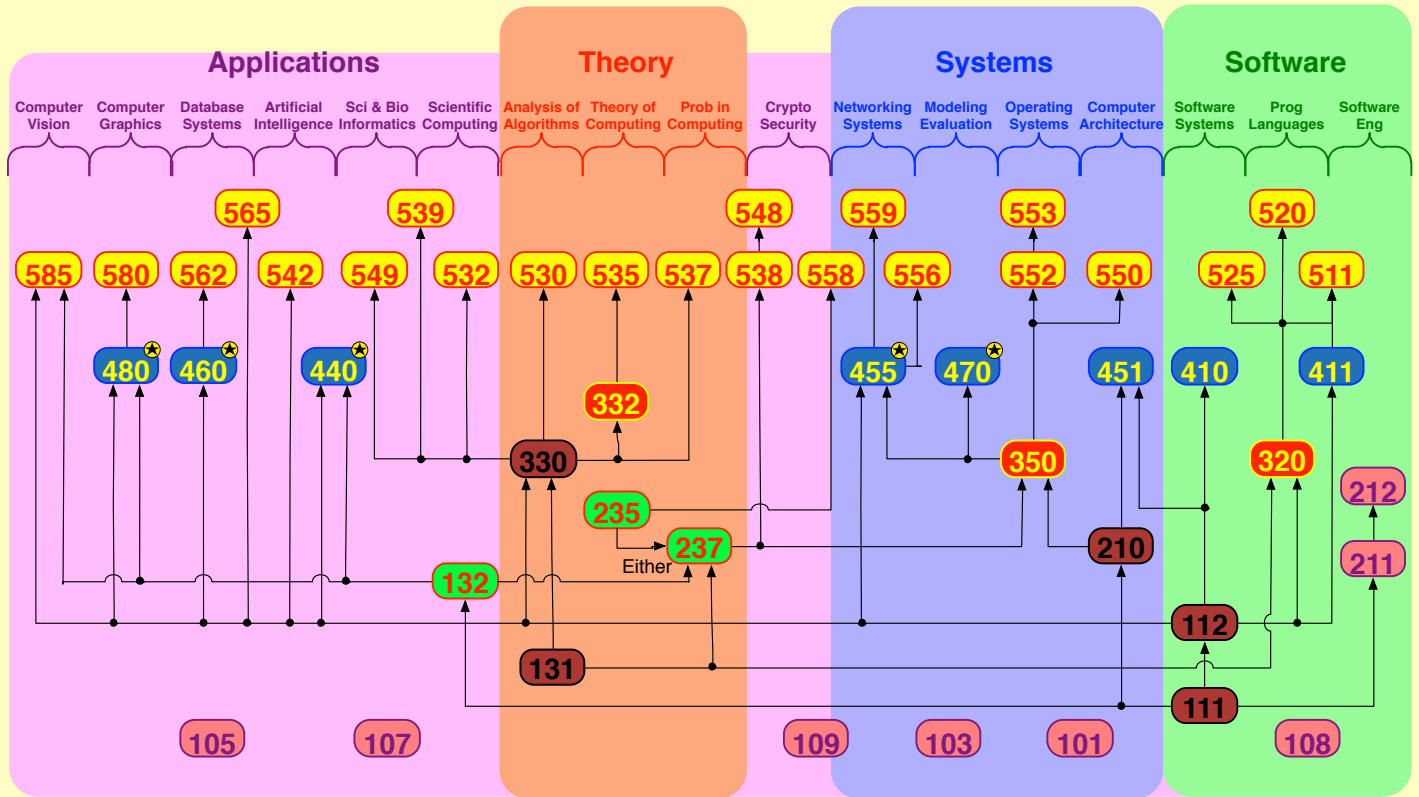
Proposed Schedule List your proposed schedule for next semester, with potential alternates. Consider taking CS courses in addition to the CS concentration requirements, but fulfill the requirements first.

(1) _____ (2) _____ (3) _____ (4) _____

Alternates: (5) _____ (6) _____

BU Computer Science Course Map and Structure

Group A
D: Ugrad/Grad
Grad Section ^{*}
Group B
D: Ugrad Only
Other
Group C



Degree Requirements:

Major Concentration in CS = 15 Total: all 5 in Group A, at least 2 in Group B, at least 2 in Group C, rest from Group D.
 Minor in CS = 2 (or less) Background + 3 (or more) Required or Elective + 1 (or less) Other = 6 Total
 Masters in CS = 1 (or more) Grad Electives in each of Theory, Systems, Software, and Applied Areas = 8 Total

Notes:

- (1) Please consult CAS/GRS Bulletins for detailed, authoritative degree requirements
- (2) Co-requisite and recommended prerequisite courses are not shown
- (3) Please consult your advisor for non-CS background courses and non-CS prerequisites

111 Introduction to CS I
 112 Introduction to CS II
 131 Combinatoric Structures
 132 Geometric Algorithms
 210 Computer Systems
 211 Algebraic Algorithms
 212 Physical Computing
 235 Algebraic Algorithms
 237 Probability in Computing
 320 Concepts of Programming Languages
 330 Introduction to Analysis of Algorithms
 332 Elements of Theory of Computation
 350 Fundamentals of Computing Systems
 410 Advanced Software Systems
 411 Software Engineering
 440 Introduction to Artificial Intelligence
 450 Computer Architecture
 460 Introduction to Database Systems
 480 Introduction to Computer Graphics
 511 Object-Oriented Software Principles
 512 Formal Methods for High-Assurance Computer System Design and Analysis

520 Programming Languages
 525 Compiler Design Theory
 530 Analysis of Algorithms
 535 Complexity Theory
 537 Probability in Computing
 538 Fundamentals of Cryptology
 539 Methods of Scientific Computing
 542 Machine Learning
 548 Advanced Cryptography
 549 Pattern Matching and Detection with Applications in Biological Sequence Analysis
 552 Introduction to Operating Systems
 553 Operating Systems II
 556 Advanced Computer Networks
 558 Computer Network Security
 559 Algorithmic Aspects of Computer Networks
 562 Advanced Database Applications
 565 Data Mining
 580 Advanced Computer Graphics
 585 Image and Video Computing