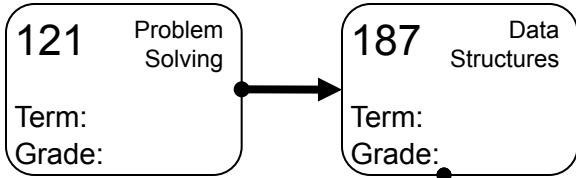


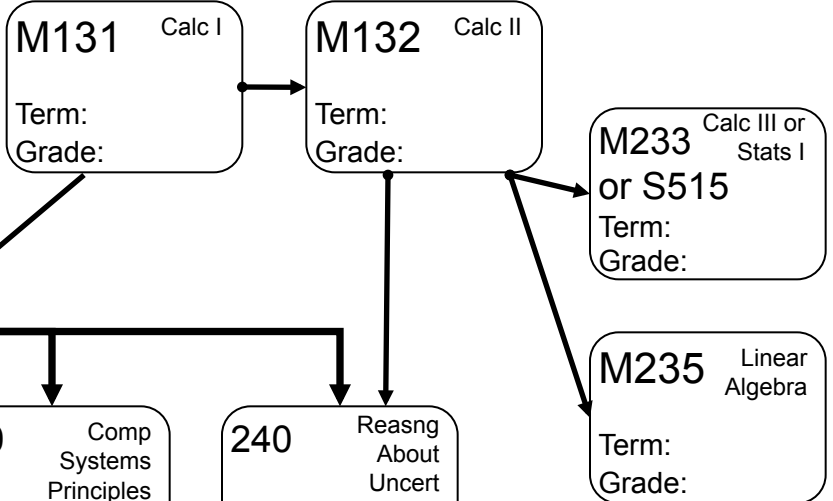
BS-CMPSCI Tracking Form for departmental requirements

Name: _____ ID#: _____ Advisor: _____

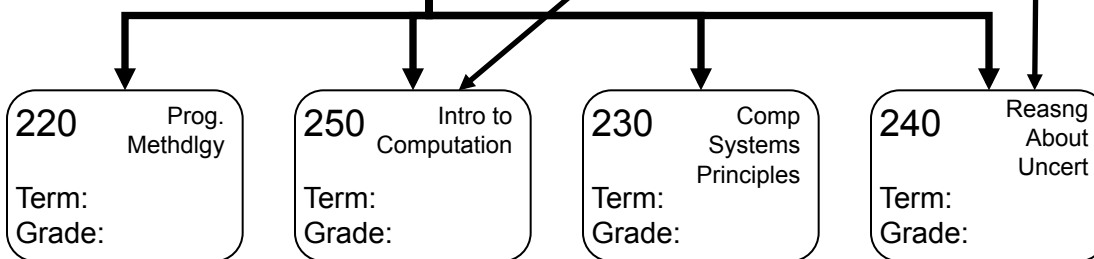
Two introductory CS courses



Four math courses



Four core CS courses



287 can substitute for 220.

For students graduating by May 2012: 201 can substitute for 230 only if 377 is taken as well; CS383 can substitute for 240 if a CS elective replaces 383.

Jr Yr Writing:

305 Social Issues
Term: _____
Grade: _____

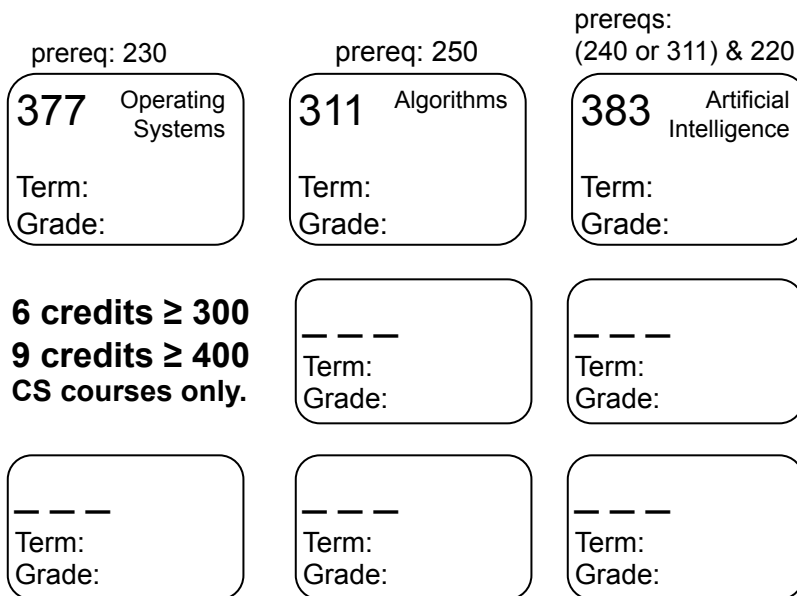
Eight CS electives. Choose a subplan (see back for requirements)

- | | |
|---|--|
| <input type="checkbox"/> General Computer Science (below) | <input type="checkbox"/> Networking |
| <input type="checkbox"/> Software Engineering | <input type="checkbox"/> Software Systems |
| <input type="checkbox"/> Security & Privacy | <input type="checkbox"/> Programming Lang. & Compilers |
| <input type="checkbox"/> Robotics, Vision, and Graphics | <input type="checkbox"/> Theory of Computation |
| <input type="checkbox"/> Artificial Intelligence | <input type="checkbox"/> Search & Data Mining |
| <input type="checkbox"/> Computer Architecture | |

GPA

Minimum 2.0 cumulative GPA in all courses applied to major; Pass/Fail not allowed in major.

GENCOMPSCI



6 credits ≥ 300
9 credits ≥ 400
CS courses only.

8 credits of science courses:

BIOL 100, 101;
CHEM 111/2, 121/2;
GEO 101 with lab; or
PHY 151, 152 (or 181, 182)

Term: _____ Term: _____
Grade: _____ Grade: _____

Mixing two depts. is OK (e.g., Chem and Bio). In general, we require courses that 1) count towards the majors of the sponsoring dept, 2) include a lab, 3) are 4 credits of work.

Below are requirements for subplans, which can be completed instead of GenCmpSci (front). **Pick only one!**

- All numbers refer to CS courses
- Only 3 credits of 499Y/T/P and Indp. Studies count towards the degree, and requires approval.
- † Graduate level courses (600 and higher) often have twice the workload of undergraduate courses. Proceed with caution!

Software Engineering

- Four required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 520 SE-Synthesis
 - _____ 521 SE-Analysis & Evaluation
- Any two courses from the following:
 - _____ 325 Usability
 - _____ 365 Digital Forensics
 - _____ 377 Operating Systems
 - _____ 401 Formal Lang. Theory
 - _____ 410 Compilers
 - _____ 445 Information Systems
 - _____ 453 Computer Networks
 - _____ 460 Intro to Security
 - _____ 513 Logic in CS
 - _____ 529 SE Project Management
 - _____ 575 Comb. & Graph Theory
 - _____ 499Y or 496 (see note)
- Two CS electives \geq 300:
 - _____ 2. _____

Artificial Intelligence

- Three required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 383 Artificial Intelligence
 - Any two courses from the following:
 - _____ 370 Computer Vision
 - _____ 403 Robotics
 - _____ 503 Embedded Systems
 - _____ 585 Natural Lang. Processing
 - _____ 589 Machine Learning
 - _____ 683 Advanced AI †
 - Three CS electives \geq 300:
 - _____ 2. _____ 3. _____
- Note: At least 3 of the 8 track courses must be \geq 400 level

Search & Data Mining

- Six required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 348 Knowledge Discovery
 - _____ 445 Information Systems
 - _____ 446 Search Engines
 - _____ 585 Natural Lang. Processing
- Two CS electives \geq 300:
 - _____ 2. _____

Robotics, Vision, & Graphics

- Five required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 370 Computer Vision
 - _____ 403 Introduction to Robotics
 - _____ 473 Computer Graphics
- Any one course from the following:
 - _____ 474 Adv. Image Synthesis
 - _____ 503 Embedded Systems
 - _____ 603 Robotics †
 - _____ 617 Comp. Geometry †
- Two CS electives \geq 300:
 - _____ 2. _____

Theory of Computation

- Three required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 401 Formal Lang Theory
- Any one course from the following:
 - _____ 377 Operating Systems
 - _____ 445 Information Systems
 - _____ 453 Computer Networks
 - _____ 535 Architecture (or 391IB)
- Any two courses from the following:
 - _____ 513 Logic in CS
 - _____ 575 Comb. & Graph Theory
 - _____ 601 Computation Theory †
 - _____ 611 Advanced Algorithms †
 - _____ 499Y or 496 (see note)
 - _____ MATH 411 Int. Abstract Alg. I
- Two CS electives \geq 300:
 - _____ 2. _____

Computer Architecture

- Four required courses:
- _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 535 Architecture
 - _____ 635 Modern Architecture
- Any two courses from the following:
- _____ 377 Operating Systems
 - _____ 401 Formal Language Theory
 - _____ 410 Compilers
 - _____ 445 Information Systems
 - _____ 453 Computer Networks
 - _____ 520 SE-Synthesis I
 - _____ 530 Programming Languages
 - _____ 610 Compiler Techniques †
 - _____ 653 Adv. Comp. Networks †
 - _____ 677 Adv. OS †
 - _____ 499Y or 496 (see note)
 - _____ ECE 353 Digital Logic I
 - _____ ECE 354 Digital Logic II
 - _____ ECE 558 Architecture
- Two CS electives \geq 300, one specifically not listed above
 - _____ 2. _____

Security & Privacy

- Three required courses:
 - _____ 311 Algorithms
 - _____ 377 Operating Systems
 - _____ 460 Introduction to Security
- Any one course from the following:
 - _____ 348 Knowledge Discovery
 - _____ 445 Information Systems
 - _____ 453 Computer Networks
- Any two courses from the following:
 - _____ 365 Digital Forensics
 - _____ 466 Applied Cryptography
 - _____ 660 Adv. Info Assurance †
- Two CS electives \geq 300:
 - _____ 2. _____

Networking

- Four required courses:
 - _____ 311 Algorithms
 - _____ 377 Operating Systems
 - _____ 453 Computer Networks
 - _____ 491G Networking Lab
- Any two courses from the following:
 - _____ 320 Software Engineering
 - _____ 445 Information Systems
 - _____ 460 Introduction to Security
 - _____ 466 Applied Cryptography
 - _____ 653 Adv. Comp Networks †
- Two CS electives \geq 300:
 - _____ 2. _____

Software Systems

- Four required courses:
 - _____ 311 Algorithms
 - _____ 320 Software Engineering
 - _____ 377 Operating Systems
 - _____ 445 Information Systems
- Any two courses from the following:
 - _____ 325 Usability
 - _____ 453 Computer Networks
 - _____ 460 Introduction to Security
 - _____ 466 Applied Cryptography
 - _____ 535 Architecture (or 391IB)
 - _____ 677 Operating Systems †
- Two CS electives \geq 300:
 - _____ 2. _____

Programming Languages & Compilers

- Four required courses:
 - _____ 311 Algorithms
 - _____ 377 Operating Systems
 - _____ 410 Compilers
 - _____ 530 Programming Languages
- Any two courses from the following:
 - _____ 320 Software Engineering
 - _____ 445 Information Systems
 - _____ 535 Architecture (or 391IB)
 - _____ 499Y or 496 (see note)
- Two CS electives \geq 300:
 - _____ 2. _____