Name: _____________________ ID#: ____________ Advisor: _______

Two introductory CS courses

121 Problem Solving
Term: Grade:

187 Data Structures
Term: Grade:

Four core CS courses

220 Prog. Methodogy
Term: Grade:

250 Intro to Computation
Term: Grade:

230 Comp Systems Principles
Term: Grade:

240 Reasng About Uncert
Term: Grade:

Four math courses

M131 Calc I
Term: Grade:

M132 Calc II
Term: Grade:

M233 or S515 Calc III or Stats I
Term: Grade:

M235 Linear Algebra
Term: Grade:

Jr Yr Writing:
305 Term: Grade:

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

- General Computer Science (below)
- Software Engineering
- Security & Privacy
- Robotics, Vision, and Graphics
- Artificial Intelligence
- Computer Architecture
- Operating Systems
- Algorithms
- Comp Systems Principles
- Artificial Intelligence
- Networking
- Software Systems
- Programming Lang. & Compilers
- Theory of Computation
- Search & Data Mining

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: Grade:

Term: Grade:

Term: Grade:

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

Univ. and GenEd requirements should be checked on SPIRE. This form is for guidance only. It does not represent official policy. The College has waived the Foreign Language Requirement for the BS degree (not the BA); ignore warnings on Spire.
These are the requirements for each subplan, which can be completed instead of GenCmpSci (front). Pick only one!

Notes:
• All numbers refer to CS courses unless otherwise stated.
• Only 3 credits of 499Y/T/P and Indp. Studies count towards the degree, and requires approval.

Software Engineering
• Four required courses:
  311 Algorithms
  320 Software Engineering
  370 Computer Vision
  403 Introduction to Robotics
  473 Computer Graphics
• 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 ≥ 300:
  1. ________ 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 ≥ 300:
  1. ________ 2. ________ 3. ________
Note: At least 3 of the 8 track courses must be ≥ 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 ≥ 300:
  1. ________ 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 ≥ 300:
  1. ________ 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
• 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 ≥ 300:
  1. ________ 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. Computer Networks
  677 Operating Systems
  499Y or 496 (see note)
  ECE 353 Digital Logic I
  ECE 354 Digital Logic II
  ECE 558 Architecture
• Two CS electives ≥ 300:
  1. ________ 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 ≥ 300:
  1. ________ 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 ≥ 300:
  1. ________ 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
  577 OS Implementation
  677 Operating Systems
• Two CS electives ≥ 300:
  1. ________ 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
  499Y or 496 (see note)
• Two CS electives ≥ 300:
  1. ________ 2. ________