Computer Science, B.S. with Honors

05/02/2025

Sample four-year plans are examples. Students will create an individualized degree plan with their advisor, reflecting their preparation, interests, and goals. Sequences may vary based on course availability, developmental needs, and preferences. For complete degree requirements, see the Undergraduate Course Catalog at http://hood.smartcatalogiq.com/.

BSCS Sample 4-year Schedule 1

Student Places in Calculus I; begins major courses in first year, first semester.

Freshman year: Fall 15 credits	**Freshman year: Spring** 15 or 16 credits
*FYEH 101 First Year Seminar (3cr) CS 201 Computer Science I (4cr) *Math 201 Calculus I (QR)(4cr) Math 207 Discrete Math (3cr) *Holistic Wellness (1cr)	*FYEH 102: Linked Course (3cr) CS 202 Computer Science II (4cr) Math 202 Calculus II (4cr) *ENGL 101 or 102 English Composition (3 or 4cr) *Holistic Wellness (1cr)
Sophomore year: Fall 17 credits	**Sophomore year: Spring** 17 credits
CS 219 Data Structures (3cr) CS 226 Computer Organization (3cr) *Global Language 101 (4cr) *Natural Science I (4cr) *Hon 201 (diversity; 3 cr)	CS 319 Algorithm Analysis (3cr) CS 329 Intro to DBMS (3cr) *Global Lang 102 (4cr) Natural Science II (4cr) *Hon 202 (ethics; 3 cr)
Junior year: Fall 15 credits	**Junior year: Spring** 16 credits
CS 324 Software Engineering (3cr) *CSIT 203 Impact of Computers on Society(ETH) (3cr) CS Elective (3cr) Hon 300-level (3 cr) *Creative & Performing Arts (3cr)	CS 453 Data Communication and Networking (3cr) CS 464 Operating Systems (3cr) Math 213 Statistics or other 200+ Math (4cr) CS Elective: (3cr) *Humanities (3cr)
Senior year: Fall 16 credits	**Senior year: Spring** 15 credits
CS 471 Programming Languages (3cr) CS 474 Capstone Proseminar (3cr) CS 399 Internship or CS Elective (3cr) *Social/ Behavioral Sciences (3cr) Free Elective (4cr)	CS 475 Senior Project (3cr) Hon 300-level (3cr) Hon 470 (3cr) Free Elective (3cr) Free Elective (3cr)

*Meet core requirements.

BSCS Sample 4-year Schedule 2

Mathematics placement in Pre-calculus or Precalc + Lab. Begin major courses in the second semester.

Freshman year: Fall 14-15 credits	**Freshman year: Spring** 15 credits
*FYEH 101 First Year Seminar (3cr) Math 120 Precalculus (3cr) OR Math 120 + Math 120L (4cr) *Global Language 101 (4cr) * ENGL 101 or 102 English Composition (3 or 4cr) * Holistic Wellness (1cr)	*FYEH 102 Linked Course (3 cr) CS 201 Computer Science I (4cr) Math 207 Discrete Math (3cr) *Global Language 102 (4cr) *Holistic Wellness (1cr)
Sophomore year: Fall 18 credits	**Sophomore year: Spring** 17 credits
CS 202 Computer Science II (4cr) CS 226 Computer Organization (3cr) *Math 201 Calculus I (QR)(4cr) * Natural Science I (4cr) *Hon 201 (diversity; 3 cr)	CS 219 Data Structures (3cr) *CSIT 203 Impact of Computers on Society (ETH) (3cr) Math 202 Calculus II (4cr) *Natural Science II (4cr) *Hon 202 (ethics; 3 cr)
Junior year: Fall 15 credits	**Junior year: Spring** 16 credits
CS 324 Software Engineering (3cr) CS Elective (3cr) *Creative & Performing Arts (3 cr) 300-level Hon (3 cr) Free Elective (3cr)	CS 319 Algorithm Analysis (3cr) CS 329 Intro to DBMS (3cr) CS 453 Data Communication and Networking (3cr) Math 213 Statistics or other 200+ Math (4cr) *Humanities (3cr)
Senior year: Fall 15 credits	**Senior year: Spring** 15 credits
CS 471 Programming Languages (3cr) CS 474 Capstone Proseminar (3cr) *Social/ Behavioral Sciences (3cr) CS 399 Internship or CS Elective (3cr) 300-level Hon (3 cr)	CS 464 Operating Systems (3cr) CS 475 Senior Project (3cr) CS Elective (3cr) Hon 470 (3cr) Free Elective (3cr)

*Meet core requirements.

Notes:

- 124 total credits are required for graduation.
- Free Electives may be Honors program courses, a minor, additional major courses, or another subject of interest.
- There is some flexibility for interchanging the scheduling of MIND and Free Elective courses, but it is best not to leave too many requirements until the end.
- Students majoring in computer science:
  - Meet the Core-Ethics requirement by taking the CSIT 203 Impact of Computers on Society.
  - Meet the Core- Natural Science by taking eight credits of lab science courses required for a major or minor in biology, chemistry, or physics. Non-lab courses, CHEM 100, and courses for the nursing program do not count.