You can place out of CS 111 if you earn a high score on the AP CS A exam, or if you have other equivalent background. For placement information, consult http://cs.carleton.edu. Plan to learn Python before taking CS 20x.

Entry Points
All yellow-shaded courses, Math 111, and two 200+-level electives are required for the major.

Core
CS 201 (F, W, S) Data Structures
CS 202 (W, S) Math of CS (Calc 1 req’d)
CS 208 (F, S) Intro Computer Systems

Advanced Core
CS 251 (F, W, S) Programming Langs.
CS 257 (F, W, S) Software Design
CS 254 (F, W) Comp. & Complexity
CS 252 (F, W, S) Algorithms

Electives
Two electives are required; most are offered every other year. Electives not offered in 2020–2021 are grayed out. * = add’l prereqs

Electives
CS 304 (F) Social Computing
CS 320 (F) Machine Learning
CS 321 (F) Artificial Intelligence
CS 324 (F) Data Mining
CS 328 (F) Comp. Models of Cogn.
CS 314 (W) Data Visualization
CS 312 (F) Computer Graphics
CS 311 (W) Audio Programming
CS 310 (S) Natural Language Proc.
CS 318 (F) Computational Media

Electives
CS 321 (F) Computer Security
CS 330 (F) Real-Time Systems
CS 332 (F) Operating Systems
CS 334 (F) Database Systems
CS 341 (W) History of Computing
CS 340 (F) Mobile App Dev.
CS 342 (F) Human-Comp. Interact.
CS 361 (W) Evolutionary Comp.

Electives
CS 301 (S) Comp. Networks
CS 331 (F) Computer Networks
CS 344 (W) Parallel/Distr. Comp.
CS 348 (W) Comp. Models of Cogn.
CS 332 (W) Operating Systems
CS 333 (W) Human-Comp. Intert.
CS 344 (W) Mobile App Dev.
CS 358 (W) Quantum Computing

Electives
CS 301 (S) Comp. Networks
CS 302 (S) Mobile App Dev.
CS 344 (W) Parallel/Distr. Comp.
CS 362 (F) Computational Bio.

Comps
CS 399 (F, W) Senior Seminar
CS 400 (W, S) Comps