Computer Science, BA

Academic Plans

Four-Year Graduation Plan

The Four-Year Graduation Plan is not available to BA students majoring in computer science. Students work with their advisors on individual graduation plans.

Sample Plan of Study

Sample plans represent one way to complete a program of study. Actual course selection and sequence will vary and should be discussed with an academic advisor. For additional sample plans, see MyUI.

Computer Science, BA

Course Title Hours

Academic Career

Any Semester

Effective fall 2022, computer science majors enrolled full-time and with 60 s.h. or more overall earned hours reflected on the UI grade report will be assessed $500 per semester supplemental tuition; the amount is pro-rated for part-time students. For more information see: https://cs.uiowa.edu/supplemental-tuition-effective-fall-2022.

GE CLAS Core: Sustainability

Hours 0

First Year

Fall

MATH:1005 College Algebra b 4
RHET:1030 or ENGL:1200 Rhetoric or The Interpretation of Literature 3 - 4
GE CLAS Core: Diversity and Inclusion c 3
GE CLAS Core: World Languages First Level Proficiency or elective course d 4 - 5
CSL:1600 Success at Iowa 2

Hours 16-18

Spring

CS:1110 Introduction to Computer Science 3
MATH:1010 Trigonometry 3
ENGL:1200 or RHET:1030 The Interpretation of Literature or Rhetoric 3 - 4
GE CLAS Core: Historical Perspectives c 3
GE CLAS Core: World Languages Second Level Proficiency or elective course d 4 - 5

Hours 16-18

Second Year

Fall

CS:1210 Computer Science I: Fundamentals 4
MATH:1850 Calculus I 4
GE CLAS Core: Social Sciences c 3
GE CLAS Core: World Languages Third Level Proficiency or elective course d 4 - 5
Elective course e 1

Hours 16-17

Spring

CS:2210 Discrete Structures 3

MATH:1860 Calculus II 4
GE CLAS Core: World Languages Fourth Level Proficiency or elective course e 4 - 5
Elective course e 3
Elective course e 2

Hours 16-17

Third Year

Fall

CS:2230 Computer Science II: Data Structures 4
Major: mathematics core course f 3 - 4
GE CLAS Core: Natural Sciences with Lab e 4
Elective course e 3
Elective course e 1

Hours 15-16

Spring

ECE:3350 or CS:2630 Computer Architecture and Organization or Computer Organization 3 - 4
CS:3330 Algorithms g 3
GE CLAS Core: Literary, Visual, and Performing Arts c 3
GE CLAS Core: Natural Sciences without Lab e 3
Elective course e 3

Hours 15-16

Fourth Year

Fall

CS:2820 Introduction to Software Development g 4
CS:3820 Programming Language Concepts g 3
GE CLAS Core: International and Global Issues c 3
Elective course e 3
Elective course e 3

Hours 16

Spring

ECE:3350 or CS:3640 Operating Systems or Introduction to Networks and Their Applications 3
Major: advanced computer science elective h 3
GE CLAS Core: Values and Culture c 3
Elective course e 3
Elective course e 3
Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall) i

Hours 15

Total Hours 125-133

a Sustainability must be completed by choosing a course that has been approved for Sustainability AND for one of these General Education areas: Natural Sciences; Quantitative and Formal Reasoning; Social Sciences; Historical Perspectives; International and Global Issues; Literary, Visual, and Performing Arts; or Values and Culture.
b Enrollment in math courses requires completion of a placement exam.
c GE CLAS Core courses may be completed in any order unless used as a prerequisite for another course. Students should consult with an advisor about the best sequencing of courses.
d Students who have completed four years of a single language in high school have satisfied the GE CLAS Core World Languages requirement. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course.
e. Students may use elective courses to earn credit towards the total s.h. required for graduation or to complete a double major, minors, or certificates.
g. Students may take CS:2820, CS:3330, and CS:3820 in any order after completing CS:1210, CS:2210, and CS:2230.
h. Students may choose a computer science course (prefix CS) numbered 3620-5899 (except CS:3910, CS:3980, CS:4310), or a CS course numbered 5900 or above with department approval. A course used to complete a core requirement cannot also be used as a major elective.
i. Please see Academic Calendar, Office of the Registrar website for current degree application deadlines. Students should apply for a degree for the session in which all requirements will be met. For any questions on appropriate timing, contact your academic advisor or Graduation Services.