# 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](https://cs.uiowa.edu/supplemental-tuition-effective-fall-2022).

**GE CLAS Core: Sustainability**

**First Year**

**Fall**

- **MATH:1005** College Algebra
- **ENGL:1200** or **RHTH:1030** The Interpretation of Literature or Rhetoric
- **GE CLAS Core: Diversity and Inclusion**
- **GE CLAS Core: World Languages First Level Proficiency or elective course**
- **CSI:1600** Success at Iowa

**Spring**

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

**Second Year**

**Fall**

- **CS:1210** Computer Science I: Fundamentals
- **MATH:1850** Calculus I
- **GE CLAS Core: Social Sciences**
- **GE CLAS Core: World Languages Third Level Proficiency or elective course**
- **Elective course**

**Spring**

- **CS:2210** Discrete Structures
- **MATH:1860** Calculus II
- **GE CLAS Core: World Languages Fourth Level Proficiency or elective course**
- **Elective course**
- **Elective course**

**Third Year**

**Fall**

- **CS:2230** Computer Science II: Data Structures
- **Major: mathematics core course**
- **GE CLAS Core: Natural Sciences with Lab**
- **Elective course**
- **Elective course**

**Spring**

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

**Fourth Year**

**Fall**

- **CS:2820** Introduction to Software Development
- **CS:3820** Programming Language Concepts
- **GE CLAS Core: International and Global Issues**
- **Major: advanced computer science elective**
- **GE CLAS Core: Values and Culture**
- **Elective course**
- **Elective course**
- Degree Application: apply on MyUI before deadline (typically in February for spring, September for fall)

**Spring**

- **CS:3640** or **CS:3620** Introduction to Networks and Their Applications or Operating Systems
- **Major: advanced computer science elective**
- **GE CLAS Core: Values and Culture**
- **Elective course**
- **Elective course**

**Total Hours**

125-133

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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 levels of a single language or two levels of two different languages in high school or college have satisfied the GE CLAS Core World Languages requirement. Students who have completed three levels of a single language may complete a fourth-level course in the same language or may choose an approved World Language and Cultural Exploration course. Enrollment in world languages courses requires a placement exam, unless enrolling in a first-semester-level course. Contact your academic advisor or CLAS Undergraduate Programs Office with questions concerning the World Languages requirement.

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.

f Choose from MATH:2700, STAT:2020, or STAT:3120.

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 Degree Services.