The minor in computer and information science (CIS) consists of a minimum of 25 credit hours in one of two tracks: programming and algorithms, or information systems. See the course lists below. If you complete the minor following these guidelines, you should file the Minor Program Form with a college or school counselor. Any variation from the program described here needs the approval of the coordinating advisor in the Department of Computer Science & Engineering. CIS minors do not pay a computing fee (at least not as part of their minor), they do not get permanent computer accounts on the CSE machines, and do not get priority. For further information about the minor program, contact the CSE advising office.

### Information systems track

**Required courses**

- CSE 200, 201, 214, 670
- Mathematics (Math) 366

**Elective course (select a minimum of two)**

- CSE 314, 551, 616, 671

### Programming and algorithms track

**Required courses**

- CSE 201 or 202, 221, 222, 321, Math 366

**Elective courses (select a minimum of two)**

- CSE 360, 541, 551, 581, 621, 625, 630, 670, 671, 675.01 or 675.02, 677, 680.

**Other courses as approved by CSE Advising Office**

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**Arts and Sciences minor program guidelines**

The following guidelines govern minors.

**Required for graduation**

- No

**Credit hours required**

- A minimum of 20 (some minors require more)

**Transfer credit hours allowed**

- A maximum of 10

**Overlap with the GEC**

- Permitted, unless specifically disallowed by an individual minor program.

**Overlap with the major**

- Not allowed and
  - The minor must be in a different subject than the major.
  - The same courses cannot count on the minor and on the major.

**Overlap between minors**

- Each minor completed must contain 20 unique hours.

**Grades required**

- Minimum C- for a course to be listed on the minor.
- Minimum 2.00 cumulative point-hour ratio required for the minor.
- Course work graded Pass/Non-Pass cannot count on the minor.

**Approval required**

- The minor program description sheet indicates if the minor course work must be approved by:
  - The academic unit offering the minor, or
  - A college or school counselor.

**Filing the minor program form**

- The minor program form must be filed at least by the time the graduation application is submitted to a college or school counselor.

**Changing the minor**

- Once the minor program is filed in the college office, any changes must be approved by:
  - The academic unit offering the minor, or
  - A college advisor (depending on the minor).