The minor in computer and information science (CIS) consists of a minimum of 13 credit hours; see the course lists below. The courses are in three categories: Programming Fundamentals, CIS Core, and Technical Electives. Three different tracks, A, B, and C, are available for the fundamentals portion; each track consists of a 3-cr hour pre-requisite course (which, being at the 1000-level, is not counted in the total hours for the minor), followed by a 3- or 4-cr hour course. The core consists of a 3 cr hr course followed by a 1 cr hr course (on professionalism and ethics in computing). The electives portion requires the student to take a minimum of 6 cr hrs from a specified list of courses.

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 adviser in the Department of Computer Science & Engineering.

CIS minors do not get permanent computer accounts on the CSE machines, and do not get priority scheduling in CSE courses. For further information about the minor program, contact the CSE advising office.

**Programming Fundamentals:**

Complete one of the following tracks:

Track A: CSE 1211 (3 hrs), CSE 2221 (4 hrs)
Track B: CSE 1222 (3 hrs), CSE 2122 (3 hrs)
Track C: CSE 1223 (3 hrs), CSE 2123 (3 hrs)

**CIS Core:**

CSE 2321, Foundations I (3 hrs)
CSE 2501, Professionalism & ethics (1 hr)

**Technical Electives:**

Choose a minimum of 6 cr hrs from the following:

CSE 2231 (4 hrs), 2331 (3 hrs), 2421 (4 hrs), 3241 (3 hrs), 4251 (1 hr), 4252 (1 hr), 4253 (1 hr), 4254 (1 hr), 4521 (3 hr), 5471 (3 hrs); and other courses as approved by the CSE Advising Office.