

**MINOR in Computer and Information Science**

Undergraduate students in the College of Arts, Sciences, and Letters (CASL), the School of Management (SOM), and the School of Education (SOE), as well as engineering majors in CECS, may pursue a minor in Computer and Information Science. Students fill out a Declaration of Minor Form at their school or college’s advising office to declare a minor.

The minor in Computer and Information Science requires a minimum of **24 credits** of CIS courses (with a minimum 2.00 gpa in the courses), which must include the following:

- CIS 150      Computer Science I      (4 credits) – [requires Math 115 as co-req]**
- CIS 200      Computer Science II      (4 credits) – [requires Math 115 as pre-req]**
- CIS 275      Discrete Structures      (4 credits) – [requires Math 115 as pre-req]**
  
- CIS 350      Data Structures and Algorithm Analysis      (4 credits)**
- CIS 300/400-level courses approved by the CIS department      (8 credits)**

That is, a minimum of twelve (12) credits of 300/400-level CIS courses is required for the minor, for which CIS 150, CIS 200, and CIS 275 are pre-requisites.

**CIS Minor – Game Design option (26 credits)**

**CIS 150 (4), CIS 200 (4), CIS 275 (4)** plus the following CIS courses (14 credits):

- CIS 350      Data Structures and Algorithm Analysis      (4 credits)**
- CIS 375      Software Engineering 1      (4 credits)**
- CIS 487      Computer Game Design 1      (3 credits)**

Plus one of the following courses for a total of fourteen (14) upper-level credits:

- CIS 451      Computer Graphics      (3 credits)**
- CIS 479      Artificial Intelligence      (3 credits)**
- CIS 488      Game Design 2      (3 credits)**

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Engineering majors must take twelve (12) credits of approved 300/400-level CIS courses not otherwise being used for their major. That is, any 300/400-level CIS courses being used for an engineering major cannot be used to satisfy the CIS minor. The same applies to the 14 CIS credits for the Game Design option.

Computer Engineering or Electrical Engineering majors may use the courses below (but only as substitute pre-requisites for the CIS minor) in order to take CIS 350:

- ECE 270 (4) for CIS 150 (4)
- ECE 370 (4) for CIS 200 (4)
- ECE 276 (4) for CIS 275 (4)