

Computer Science

Department Chairperson:

Howard Silver

The Department of Mathematics and Computer Science offers a Master of Science degree in Computer Science. The program is designed to be as flexible as possible to meet the varied needs of students. Four courses are explicitly required, and the remaining eight courses are chosen after consultation with the graduate advisor to ascertain individual needs.

General Requirements

- Fulfillment of the general requirements for admission to the graduate program.
- A bachelor's degree from an accredited institution with a C average or better in post-programming-level computer science courses.
- Minimum expected programming background for the graduate program consists of the equivalent of one year of programming in a high-level language, as well as an understanding of data structures, the principles of programming languages, and a machine-level language. Introductory knowledge of microcomputers is expected, as well as knowledge of differential and integral calculus, statistics, and discrete mathematics. Students lacking this background may be admitted, but will be required to take the appropriate undergraduate courses to remove any deficiencies, as recommended by the graduate advisor.

Specific Requirements

- Required core courses (with a grade of B or better in each): CPTR 430, 440, 460, and 495.
- Completion of one course from each of the following areas (with at least a B average in the four courses): Theory: CPTR 404 or 409; Software Engineering: CPTR 420, 424 or 429; Database: CPTR 445, 446, or 447; Networks: CPTR 461, 464, 469.
- Completion of twelve additional hours, selected from among any 400-level CPTR courses. A maximum of nine credit hours of approved 300G-level CPTR courses may be applied toward the degree, provided a grade of B or better is earned in each. Three credit hours may be taken in a related field outside of computer science, at the 300G or 400 level with the approval of the graduate advisor.