



## Central Michigan University Graduate Programs

See the CMU Graduate Bulletin  
<https://bulletins.cmich.edu/>  
for details about these curricula

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# Department of Computer Science

## Admission

Conditional admission may be granted upon completion of a bachelors degree, including a two-semester sequence in a modern programming language with elementary data structures, from an accredited institution with a minimum overall GPA of 3.0 in the last two years of study, as well as in the programming courses. International students are required to score 550 or higher on the TOEFL exam or satisfy an alternative method for demonstrating English competency.

Regular admission is granted to students who meet the above conditional requirements and have completed, with a minimum GPA of 2.5, courses in the following (or the equivalent):

- assembly language and computer organization (CPS 210)
- advanced data structures and algorithms (CPS 340)
- computer design and architecture (CPS 360)
- programming language concepts (CPS 450)
- introduction to operating systems (CPS 470)
- calculus I (MTH 132) and discrete mathematics (MTH 175)

Some graduate assistantships are available; the application deadline is February 15 for fall and October 1 for spring. Research assistantships may be available depending on funding.

## Master of Science

The graduate programs in computer science are supported by a UNIX lab, three PC labs, and dedicated laboratories for computer graphics, databases, operating systems, networks, and software engineering. In addition, the university's computer network is available.

### Degree Requirements

Students complete a minimum of 36 credit hours including three required courses: CPS 542, analysis and design of algorithms; CPS 650, theory and practice of compiler construction; CPS 670, operating systems.

Students following Plan A will take 30 hours of course work (9 hours listed above plus 21 hours of elective courses in computer science) and 6 hours of Master's thesis credit. The Master's thesis will be supervised by a thesis committee, and will culminate in an oral examination of the thesis.

Students following Plan B will take 36 hours of course work and a Plan B project, including a substantial written report. The project will normally include a significant original programming component, demonstrating scholarly and creative ability, that is supervised by a committee of two faculty members.

## More Information

For more information visit the Department of Computer Science web site: <http://www.cps.cmich.edu/> or contact the department at:

telephone: 989-774-3774  
facsimile: 989-774-3728