

Graduate Studies in Computer Science

WSU's Department of Electrical Engineering and Computer Science offers a course of study leading to the Master of Science in Computer Science (MSCS).

MSCS Admission

To be admitted to the MSCS program, students must have completed the equivalent of an undergraduate degree in computer science, computer engineering, or a related field. Students with deficiency in certain areas may be required to take additional courses. For full-standing admission, a minimum GPA of 3.0 on a 4.0 scale is required for the last 60 hours (or two years) of undergraduate work.

Students with a GPA less than 3.0 may be considered for probationary admission.

English Proficiency

Non-native speakers of English must provide either an official TOEFL score of at least 550 paper based or 79 on the internet based tests, OR an overall minimum band score of 6.5 on the IELTS examination.

MSCS Degree Requirements

The MSCS degree requires the satisfactory completion of a Plan of Study, which must be filed within the first 12 credit hours of graduate course work. The plan of study must be approved by the student's adviser and the MSCS graduate coordinator. Three options are available:

- (1) the **thesis** option requires a minimum of 24 hours of course work plus a minimum of 6 hours of thesis,
- (2) the **directed project** option requires a minimum of 30 hours of course work plus a minimum of 3 hours of directed project,
- (3) the **course work** option requires a minimum of 36 hours of course work.

Each plan of study must contain the following:

- CESP 750D Engg Research Writing
- Two core courses, which must be selected from:
 - CS 615 Compiler Construction
 - CS 665 Intro to Databases
 - CS 720 Theoretical Foundations of Computer Science
 - CS 721 Algorithms
- A minimum of 18 CS hours (including thesis, project, and independent study)
- 60 percent of the hours must be at the 700 level or higher
- At least two 800 or 900 level CS courses (including thesis and project)

It is important to note that these are only minimum requirements. Students should consult their adviser to determine any additional requirements they may have. All new entering MS graduate students will be initially admitted in the Course Work option for their MS program. When they file their Plan of Study, that option may be changed to Directed Project or Thesis if the adviser that signs the Plan of Study agrees to advise them on a Directed Project or Thesis.

Financial Aid

Several financial aid opportunities are available on a competitive basis to the best qualified students in the form of teaching and research assistantships. Furthermore, the university at large provides several campus employment opportunities for students.

Cooperative Education

This program allows both domestic and international students to combine classroom studies with academically related, paid employment in local and national companies. International students must

have completed at least nine months of study before participating in this program. In recent years, students pursuing graduate studies in computer science have enjoyed a 100 percent “co-op” placement rate in Wichita-area companies. Co-op experience also gives students a competitive edge in beginning their careers after graduation.

The Admission Process

All admissions to graduate study at Wichita State University are processed by the Graduate School, and final determination is made by the Dean of the Graduate School. The admission process starts by filing an official WSU application for admission, an application fee, and two copies of official transcripts of all previous academic work. These materials should be sent directly to the Graduate School office. International students are also required to file additional official documents, such as the official financial support certification and official TOEFL or IELTS scores. Upon request by the Graduate Dean, the department graduate coordinator performs an academic and admissibility evaluation of the materials submitted and makes an admission recommendation to the Dean of the Graduate School. Final action on each case and notification of action is handled by the Graduate School office.

Faculty

Visvakumar Aravinthan, Assistant Professor. Distribution Systems

Abu Asaduzzaman, Assistant Professor. Computer architecture, parallel computing

Rajiv Bagai, Associate Professor and Graduate Coordinator. Web anonymity, data models, deductive databases, logic programming, programming languages

Animesh Chakravarthy, Assistant Professor. Control, robotics

Yanwu Ding, Assistant Professor.

Communication systems, wireless communications, signal processing

Keenan Jackson, Lecturer. Algorithms, encryption, computer graphics

Murtuza Jadliwala, Assistant Professor.

Network security, privacy, graph theory

Ward T. Jewell, Professor. Power systems, power quality, sustainability

Huzefa Kagdi, Assistant Professor.

Software engineering

Preethika Kumar, Assistant Professor.

Quantum computing architectures

Hyuck M. Kwon, Professor.

Communication systems/theory, wireless communications

Vinod Namboodiri, Assistant Professor.

Wireless networking

Ravi Pendse, Professor and Chief Information Officer. Computer engineering, computer networking

Prakash Ramanan, Professor. XML, database systems, algorithms, data structures, information retrieval

Steven R. Skinner, Professor. Nonlinear optics, quantum computing

John M. Watkins, Professor and Chair. Control systems

For More Information

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