Master of Science in Computer Science

WSU’s Department of Electrical Engineering and Computer Science offers a program of study leading to the Master of Science in Computer Science (MSCS). The MSCS degree program prepares graduate students for career-oriented jobs or gaining admission into PhD programs around the world. Its curriculum is designed to ensure that students can study traditional areas of computer science as well as modern research trends in courses taught by active researchers having national and international recognition.

MSCS Admission
The program admits students with a bachelor’s degree in computer science, computer engineering, or a related area. Students from other areas with at least one year of university-level engineering mathematics may be admitted with an extra requirement to complete some undergraduate background deficiency courses prescribed at the time of admission.

To be considered for admission to the program, a student must have earned a GPA of at least 3.000 (or an equivalent score from another country) in the bachelor’s degree. Students whose bachelor’s degree is from an institution outside the U.S. are required to submit official scores of the GRE General Test along with the admission application.

English Proficiency
Non-native speakers of English must provide either an official TOEFL score of at least 79 on the internet based test, OR an overall minimum band score of 6.5 on the IELTS examination, OR a minimum score of 58 on the PTE-Academic.

MSCS Degree Requirements
Major area courses: Each MSCS student must take at least 18 credit hours of major area courses that are listed on the EECS department’s website. Courses taken from this group must include:
- CS 721, Advanced Algorithms and Analysis
- At least 12 credit hours of 800-level or higher courses (including thesis or project, if any)
- At least 3 credit hours of courses with a research writing and presentation component.

Electives: Up to 12 credit hours of 600-level or higher courses other than the major area courses may be taken by a student, including at most 6 credit hours of courses outside the department, approved by the student’s adviser.

Graduating Options:
- Thesis option – at least 30 credit hours, including 6 hours of thesis, CS 892.
- Project option – at least 33 credit hours, including 3 hours of project, CS 891.
- Coursework option – at least 36 credit hours.

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 copies of 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, IELTS, or PTE Academic 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
Abu Asaduzzaman, Associate Professor. Computer architecture, parallel computing
Rajiv Bagai, Associate Professor. Web anonymity, data models, deductive databases, logic programming, programming languages
Debswapna Bhattacharya, Assistant Professor. Bioinformatics, computational biology, data science, big data analytics, machine learning, data mining
Ali Eslami, Assistant Professor. Communication systems, information theory, error control coding, smart grids

Keenan Jackson, Lecturer. Algorithms, encryption, computer graphics
Murtuza Jadliwala, Assistant Professor. Network security, privacy, graph theory
Huzefa Kagdi, Associate Professor. Software engineering
Preethika Kumar, Associate Professor. Quantum computing architectures
Hyuck M. Kwon, Professor. Communication systems/theory, wireless communications
Vinod Namboodiri, Associate Professor. Wireless networking
Prakash Ramanan, Professor. XML, database systems, algorithms, data structures, information retrieval
Sergio Salinas Monroy, Assistant Professor. Information security and privacy, smart grids, cyber physical systems
Kaushik Sinha, Assistant Professor. Machine learning, artificial intelligence, data mining
Yi Song, Assistant Professor. Wireless networks, network security, cognitive radio networks
Pu Wang, Assistant Professor. Data networks, cognitive radio networks, Internet of multimedia things

For More Information
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