

School of Computing and Engineering

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School of Computing and Engineering

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History

The University has offered engineering degree coursework since 1956. Increased technology demands during the mid-80s, combined with a generous gift from Sprint, led to the development of UMKC's high-tech computer science and telecommunications program in 1984. These disciplines were combined in 2001 to form the School of Computing and Engineering (SCE).

Mission

The mission of the School of Computing and Engineering is to provide competitive educational opportunities and focused research in Computing and Engineering generating the technical work force and research needed for economic development.

Departments and Degree Programs

The School of Computing and Engineering has two departments:

- Civil and Mechanical Engineering
- Computer Science Electrical Engineering

Each department offers undergraduate and graduate degrees. The Civil and Mechanical Engineering Department offers B.S. in Civil Engineering, B.S. in Mechanical Engineering, M.S. in Civil Engineering, and M.S. in Mechanical Engineering. The Computer Science Electrical Engineering Department offers B.A./B.S. in Computer Science, B.S. in Electrical & Computer Engineering, Bachelor of Information Technology (B.I.T), M.S. in Computer Science, and M.S. in Electrical Engineering.

The School also participates in UMKC's Interdisciplinary Ph.D. program through four disciplines. Students interested in pursuing a doctoral degree in civil or mechanical engineering may select engineering as a discipline. The three other disciplines housed in SCE are computer science, electrical and

computer engineering, and telecommunications and computer networking (See the School of Graduate Studies section of this catalog for details about the Interdisciplinary Ph.D. Program.)

Financial Assistance and Scholarships

The University has a number of financial programs, scholarships and awards for the benefit of our students, see <http://www.sfa.umkc.edu/site> for opportunities available to all UMKC students. Opportunities specifically for undergraduate SCE students include a number of scholarships (visit the SCE Scholarship Web page at <http://www.umkc.edu/sce>). The following are available to first-time degree applicants to UMKC:

- The Chancellor's Nonresident Award (CNR) is available to new SCE domestic students who must pay non-resident tuition.
- The Dean's International Award for Computing and Engineering (DICE) is available to new SCE international students.

Both CNR and DICE awards are decided at the same time that the admission decision is made and no specific application form is required. The CNR and DICE are competitive awards and awarded only to the best qualified applicants. The amount of the CNR award is the Nonresident Fee Differential (up to nine hours per semester for graduate students, 12 hours for undergraduate students), and the amount of the DICE award is maximally 85 percent of the Nonresident Fee Differential, depending on the student's qualification. Both the CNR and DICE are renewable if minimum 3.0 GPA for undergraduates and 3.5 for graduate students.

Graduate Assistantships

Each department also has a limited number of graduate assistantships available each semester.

Research Assistantships are available through various faculty conducting funded research, and information on these can be obtained from individual faculty. Most faculty with funded research programs will award research assistantships to students they have been able to observe in class room performance.

A limited number of teaching assistantships are available to fully-enrolled graduate students who have successfully passed the school's verbal and comprehensive exams.

Typically, awards are for quarter-time, three-eighths, or half-time support, and may include tuition fee waivers. Priority will be given to students with excellent communication skills and to students in the Interdisciplinary Ph.D. program. International students who wish to be considered for a Graduate Assistantship must pass a SPEAK test, administered at UMKC's Applied Language Institute and can not be considered for a teaching assistantship during their first semester of enrolment. Furthermore, they may be asked to present a simulated lecture that will be videotaped for review. Students must apply for these opportunities by sending their application materials to the Department of Civil and Mechanical Engineering (alberts@umkc.edu) or to the Department of Computer Science Electrical Engineering (griffiths@umkc.edu).