BS/MS Program in Computer Science

BS/MS CS in Five Years
The School of Computing and Engineering established the BS/MS program to offer students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree within four years and then completing an M.S. degree in the fifth year.

Computer Science (BS)/(MS):
• Students admitted to the program will receive the SCE BS/MS Scholarship which will cover the difference between Graduate and Undergraduate tuition rates
• Students are required to maintain full-time undergraduate enrollment (minimum 12 hours/semester)
• Must be continuously enrolled from BS to MS programs (must enter graduate program the semester following completion of BS degree requirements)
• Students are required to maintain full-time enrollment (minimum 9 hours/semester) in the graduate phase of the program and complete the master's degree within a year of their bachelor's degree completion to continue to receive the BS/MS Scholarship

Admission Requirements for BS/MS Program:
Students must meet the following requirements to be eligible:
• The GRE will be waived for students who meet the qualifications above and are planning to enroll in the BS/MS program
• Students must indicate their interest and apply to the program no later than the end of their junior year
• Students must complete 30 hours at SCE prior to admission to the BS/MS program
• Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain: UMKC cumulative GPA of 3.00 or higher

This program offers students an opportunity to meet the full requirements of the existing BS and MS degree programs in a shorter time period than the separate degree programs by completing a B.S. degree in Computer Science within four years, and then completing an M.S. degree in Computer Science in their fifth year. Please contact the DST Student Services Center for additional information or clarification on the information below by calling (816) 235-2399, or sending an e-mail to mailto:sce@umkc.edu.

University Requirements
General Education
The UMKC General Education Core (http://catalog.umkc.edu/undergraduate-academic-regulations-information/general-education-requirements) is the university-wide curriculum that all undergraduate students will complete. The 30-credit hour core curriculum includes three course types designated as Anchor, Discourse and Focus and is detailed in the General Education (http://catalog.umkc.edu/undergraduate-academic-regulations-information/general-education-requirements) section of the catalog.

Constitution Course
Every undergraduate student must take a course covering the United States Constitution and the Missouri State Constitution before graduation. Course options are included in the program requirements section below.

RooWriter Assessment
Candidates for all baccalaureate degrees must complete the online UMKC RooWriter Writing Assessment after they have passed Discourse 200 (or its equivalent) but before they have attained 90 credit hours. Incoming transfer students with more than 90 credit hours must complete the RooWriter by the end of their first semester of enrollment or within one semester after passing Discourse 200 (or its equivalent). Students who have not completed the RooWriter Writing Assessment within two semesters after passing Discourse 200 (or its equivalent) will be blocked from enrollment until they successfully complete the RooWriter. Additional information is available in the Undergraduate Academic Regulations and Information (http://catalog.umkc.edu/undergraduate-academic-regulations-information/roowriter) section of the catalog.

Exit Examinations
Information on exit examinations and/or major field exams is available in the Undergraduate Academic Regulations and Information (http://catalog.umkc.edu/undergraduate-academic-regulations-information/graduation/exitexams) section of the catalog.

Missouri Higher Education Civics Achievement Examination
In accordance with Missouri Senate Bill 807 (section 170.013.1), ‘any student entering a public institution of higher education for the first time after July 2019 who is pursuing an associate's or bachelor's degree from such institution shall successfully pass an examination on the provisions and principles of American civics with a score of seventy percent or greater as a condition of graduation from such institution’. To satisfy this requirement
at UMKC, students access the exam through the Canvas site. This requirement will be listed in the degree audit system as, 'Take State Mandated Missouri Higher Education Civics Achievement Examination', and listed on the transcript as 'Missouri Civics Examination'.

**Student Learning Outcomes**

Students graduating from this program will:

- Be able to apply knowledge of discrete structures and computer organization appropriate to the discipline.
- Be able to design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs.
- Be able to communicate effectively with a range of audiences.
- Develop solutions for advanced problems using appropriate skills and knowledge in computer science.
- Demonstrate advanced knowledge in an area of specialization.
- Recognize and apply state of the art techniques and tools in the field.
- Plan and conduct scholarly activities.
- Communicate effectively in both written and oral forms.
- Recognize the need for and ability to engage in life-long learning.
- Understand ethical and professional responsibilities.
- Work effectively in teams.

**Requirements for Graduation**

**Credit Hour Requirements**

The BS and MS program in Computer Science requires:

- 120 Undergraduate Credit Hours,
- 24 Graduate Credit Hours,
- 6 General Elective hours that can be satisfied at any level,
- 150 Total Credit Hours.

**Academic Requirements**

The academic requirements for both degrees are identical to the requirements for the two degrees when considered separately, with a few additions and exceptions.

1. Students enrolled in the plan must maintain a 3.0 cumulative GPA for all UMKC coursework.
2. Students must receive a minimum grade of C (2.0) in every undergraduate course attempted in the CSEE Department.
3. Students must receive a minimum grade of B (3.0) for every graduate course attempted in the CSEE Department.
4. Students should follow the recommended sample program in order to graduate within five years, but variations are possible.

For additional details, please contact our Department by phone (816) 235-1193 or by e-mail mailto:sce@umkc.edu. (sce@umkc.edu)

**Tools for Planning and Fulfilling Academic Requirements**

UMKC's Major Maps (https://cf1.umkc.edu/majormaps) are detailed, semester by semester plans that lead a student to complete all degree requirements within four years. Plans include benchmarks and critical courses by term that assist a student's evaluation of progress and major "fit". In order to ensure that the appropriate courses are taken, students are encouraged to consult with the undergraduate advisor for this major.

UMKC's Degree Audit System (https://www.umkc.edu/registrar/majors-degrees/planmydegree.asp) provides an individual evaluation of all degree requirements (General Education Core, Degree Specific, Major Specific, etc.) for student's officially recorded (Office of Registration and Records) and "what if" plans of study. This evaluation is used to certify all graduation requirements.

UMKC's Transfer Guides (https://www.umkc.edu/transferguides) provide detailed guidance on recommended transfer coursework, plans of study, transfer timelines, and transfer contact information. To ensure a seamless transfer experience, students are encouraged to work with both their community college advisor and a UMKC advisor when planning their coursework.