BS-MS: COMPUTER SCIENCE

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.

The School of Science 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.

- 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, summer excepted)
- 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 UMKC prior to admission to the BS/MS program
- Students are expected to follow the recommended curriculum (although deviations are possible) and must maintain a 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.

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.

Five Year Program Sample

Students should follow the sample program as listed for the BS in Computer Science degree and should apply for the graduate degree prior to enrolling for the fall semester of their fourth year. During their fifth year, they could enroll in 12 credit hours each semester or make use of the summer semester between their fourth and fifth year to take a course or special project, if offered.

For additional details, please contact our Department by e-mail sse@umkc.edu. (sce@umkc.edu)