

### **M.S in Cellular and Molecular Biology**

The School of Science and Engineering offers a Master of Science in Cellular and Molecular Biology. Students will be trained in the fundamental principles of cell biology, molecular biology and biochemistry, and will develop the research skills for successful careers as technical specialist, and/or successfully compete for doctoral and professional graduate programs.

To apply go to <https://www.umkc.edu/admissions/apply/graduate-professional-application-process.html>, and click on the Apply Now button in the middle of the page. Once admitted into the program, students may elect to do a thesis or a non-thesis (course) M.S. Either degree may be earned with a Bioinformatics Emphasis. The non-thesis M.S. may be done on a part-time basis.

#### Requirements for applying to the M.S. Cell and Molecular Biology degree program:

- A baccalaureate degree in biology, chemistry, physics or related discipline, and a 3.0 cumulative grade point average (3.2+ expected).
- Three letters of recommendation from those familiar with the student's academic and intellectual capabilities.
- Statement of your career goals and why you want to earn your MS degree (1-2 pages)
- A minimum TOEFL score of 90 (out of 120) on the internet based exam or an overall band score of 7.0 on the IELTS exam (international applicants only). This will be waived if an international applicant has earned a baccalaureate degree from a US college or university.

#### Financial Assistance:

The School of Science and Engineering does not guarantee financial support for M.S. students. There may be opportunities to TA for the undergraduate labs, which will allow students to earn \$2400 - \$3600 per semester.

#### Courses for the M.S. Cell and Molecular Biology degree (30 cr. hr.):

7 cr. hr.	LSMBB 5561/5562, General Biochemistry I and II
6 cr. hr.	LSCBB 5530/5520, Cell and Molecular Biology I and II
1 cr. hr.	LSMBB 5611 or LSCBB 5612, Seminar
16 cr. hr.	Electives

At least 3 cr. hr. of electives must come from a School of Biological Sciences graduate course. Electives include Biophysical Principles, Virology, Developmental Biology, Protein Structure Function, Evolution\*, Bioinformatics and Data Analysis\*, Neurobiology, Mammalian Physiology, Biostatistics\*  
For the M.S. thesis, 6 cr. hr. of electives must be LSMBB/CBB 5599, Thesis research

\*required courses for the Bioinformatics Emphasis

Other questions? Contact:

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