

**Missouri State University Equivalents to Fulfill Requirements in the Biological Sciences for UMKC School of Dentistry – Regular Admission process. (See Reserved Admission Program at end of document)**

Beginning in 2004, four semesters (16-20 hrs) of specified biological science courses will be required at UMKC-Dental School. These must include an introductory biological science course (which serves also as a pre-requisite to a cell biology course), an anatomy course, a physiology course, and a cell biology course.

All courses indicated with these recommendations are laboratory courses.

To fulfill this requirement:

If you are a major in **Cell and Molecular Biology** include:

- BMS 110 Concepts in the Biomedical Sciences (an introductory biology course)\*.
- BMS 231 Human Genetics with Laboratory\*
- BMS 307 Human Anatomy
- BMS 308 Human Physiology
- BMS 321 Biomolecular Interactions (a cell biology/biochemistry laboratory course)
- \*BMS 110 and BMS 231 are prerequisites for BMS 321

If you are a major in **Biology** include:

- BIO 121 General Biology I\*
- BIO 122 General Biology II\*
- BIO 235 Principles of Genetics\*
- BIO 320 Introduction to Cellular Biology (a cell biology course)
- BIO 380 Comparative Anatomy
- BIO 361 General Physiology
- \*BIO 121, 122, and 235 are prerequisites for BIO 320

If you major outside these biological science areas you may select a **minor** in **biomedical sciences** or **biology** that includes the above courses.

Recommended elective courses for both biology and cell and molecular biology majors:

- BIO 310 Microbiology
- BMS 585 Histology

Recommended required course for cell and molecular biology majors:

- BMS 521 Molecular Cell Biology

Recommended elective course for majors who are not majors in cell and molecular biology:

- CHM 350 Biochemistry

### **Other specifics that are weighted by the Admission Committee at UMKC:**

1. Demonstrated investigation of the profession of dentistry – it is strongly suggested that candidates observe in a minimum of five different dental offices (the offices of general dentists and specialists) and acquire a minimum of 80-100 hours of dental office observation, preference is given to candidates who have worked in a dental office
2. Evidence of social conscience and compassion (i.e., caring attitude, sensitive to those in need, significant community activities) – it is strongly suggested that this be active and on-going participation in volunteer activities
3. Evidence of critical thinking and problem-solving ability (e.g., performance in courses requiring this skill, such as laboratory segments or formal logic or research experiences)
4. Full academic loads with evidence of a broad liberal arts and sciences education (i.e., fine arts, business, mathematics, humanities, computer science, etc.), all accomplished at a high level of achievement
5. A range of extracurricular activities, especially those demanding significant leadership and interpersonal skills
6. Demonstrated ability to balance full academic schedules with extracurricular involvement and/or employment (i.e., effective and efficient management of time)

### **The Reserved Admission Program at the University of Missouri-Kansas City School of Dentistry**

In addition to the regular admissions, UMKC Dental School uses The Reserved Admission Program. This admission program has three stages each requiring formal application and review.

The first stage is an acceptance as a Provisional Reserved Admission Program student.

Provisional Reserved Admission Program students apply for full Reserved Admission status mid-way through their undergraduate sophomore year.

A student with full admission into the Reserved Admission Program is assured a seat in the D.D.S. class matriculating in August following the completion of their undergraduate studies, provided they meet the criteria for maintaining their status.

The third state is matriculation at the University of Missouri-Kansas City School of Dentistry.