

# **Department of Biological Sciences**

## **Bachelor of Science**

### **Major in Biology - Pre-Dentistry Curriculum**

#### **I. General Information**

- A. Applicants will be considered on the following basis at the University of Missouri-Kansas City School of Dentistry:
- 60 to 90 college credit hours with a 3.2 or higher GPA & 3.4 or higher science GPA & DAT academic avg. of 17.
  - 90 to 120 college credit hours with a 2.9 or higher GPA. Preference for 3.2 overall GPA & 3.4 science GPA plus DAT academic avg. of 17 or above.
- A minimum of 60 semester hours of college credit must have been completed before an accepted candidate may begin dental school. Students who wish to attend another dental school must obtain a catalog from that school and follow the prescribed curriculum.
- B. It is desirable that the pre-dental student receive as broad a college education as possible while meeting the pre-dental science requirements. For this reason, it is recommended that the student enroll in as many mathematics, business, computer science, social/behavioral science, communication, and humanities courses as time will permit. Also, an applied art class such as sculpting or jewelry making is also strongly recommended.
- C. The student, in consultation with his/her advisor, should clearly understand what the total requirements are for admission into a dental school. These include transcripts, interviews, the Dental Admissions Test, application through AADSAS, and letters of recommendation.
- D. Students are encouraged to attend the Annual UMKC Dental School Open House (usually in late October or early November).
- E. General education requirements must be met, as specified in the General Catalog of the College. Note: You must take 45 hours of courses at the 300 level or higher.
- F. Pre-Dental students need to score well on the nationally administered Dental Admission Test.
- G. Pre-Dental students should consider joining the university Honors Program and the Caduceus Society (organization for pre-health majors).
- H. Students must have a minimum grade point average of 2.2 for all biology courses on the major contract to graduate from ESU as a biology major.

(OVER)

## II. Required Biology Courses (45)

<u>Courses</u>		<u>Hours</u>
GB 140-141.....	Principles of Biology and Lab.....	4
ZO 214-215.....	Biology of Animals and Lab.....	4
BO 212-213.....	Biology of Plants and Lab.....	4
ZO 362-363.....	Human Anatomy and Physiology.....	5
MC 316-317.....	Microbiology and Lab.....	4
GB 425.....	General Genetics.....	3
EB 480.....	Principles of Ecology.....	3
MC 540.....	Cell Biology.....	3
ZO 762.....	Environmental Physiology.....	3
	or	
ZO 570.....	Mammal Physiology.....	3
	or	
ZO 520.....	Neurobiology.....	3
	or	
ZO 565/566.....	Histology.....	4
	or	
ZO 560.....	Endocrinology.....	3
	or	
ZO 717.....	Comparative Animal Physiology .....	3
	Upper division biology electives.....	10-12
	(Students are strongly recommended to take histology, neurobiology, and biochemistry as biology electives)	

## III. Required Physical Science and Math Courses (28-30 hours)

PH 140-141.....	College Physics I and Lab.....	5
PH 143-144.....	College Physics II and Lab.....	5
CH 123-124.....	Chemistry I and Lab.....	5
CH 126-127.....	Chemistry II and Lab.....	5
CH 370-371.....	General Organic and Lab.....	5
MA 165.....	Basic Calculus.....	5
	or	
MA 161.....	Calculus.....	5
	or	
PY 520.....	Statistics.....	3

## IV. Recommended Courses

Mathematics, business, computer science, social/behavioral science, communication, and humanities courses are encouraged.

*Biology Web Site: <http://biology.emporia.edu>*

(Updated October 17, 2006)