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)
Biology Requirements (45 hours):

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 515-516..............Vertebrate Structure and Development and Lab. 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 515-516..............Vertebrate Structure and Development and Lab. 5
ZO 762......................Environmental Physiology.................................... 3

OR

ZO 570......................Mammalian 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

GB 480.....................Senior Experience in Biology.................................. 1

Upper division biology electives.................................................................... 9-11

Required Physical Science and Math Courses (33 - 35 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 572 - 573...........Organic Chemistry I and Lab............................ 5
CH 574 - 575...........Organic Chemistry II 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 September 24, 2009)