

ZOOLOGY

Professors: LANE, TAYLOR
Instructor: McNAIR

50. GENERAL ZOÖLOGY. Five hours credit. An extensive study of the structure, development, behavior, relationships, and history of a series of type forms, both vertebrate and invertebrate. Lectures and laboratory. Not open to students who have had course 1 or 3. Intended for upper college students who major in biology with a view to teaching in high school. Fee, \$3.50. Lectures, 7:30-8:20; laboratory, 8:30-10:20. Lane, McNair.

56. ANIMALS OF THE PAST. Two hours credit. A nontechnical account of the more striking and interesting backboneed animals of the past—when, where, and under what conditions they lived. Lectures, assigned readings, and frequent museum demonstrations. Particular stress is laid on North American forms, with special reference to those occurring in Kansas. 11:30-12:20. Lane.

NOTE.—One of the following two courses will be offered, choice to be made on the basis of requests for the individual courses. Early indication of choice, by mail or personally, to the department is requested.

3. COMPARATIVE ANATOMY. Five hours credit. Structure and relations of the higher vertebrates. Lectures, assigned readings, and laboratory study of types. A course designed for premedical students, teachers and for those desiring general culture. Prerequisite, course 1 or equivalent. Not open to students who have credit in Zoölogy 103. Fee, \$7.50. Lectures, 9:30-10:20; laboratory, 7:30-9:20. Taylor.

103. VERTEBRATE MORPHOLOGY. Five hours credit. A course in comparative morphology for juniors, seniors, and graduates, in which a graded series of vertebrate forms is studied in detail, with the view of determining the origin and development of the organs and structures of the human body. Special attention is given to theoretical as well as practical problems. Readings, lectures and laboratory work. Prerequisite, ten hours of biology, including course 1. Not open to students who have credit for course 3. Fee, \$7.50. Lectures, 9:30-10:20; laboratory, 7:30-9:20. Taylor.

159. ANIMAL DISTRIBUTION. Two hours credit. A study of the geographical distribution of animals, the factors determining the range of species, life zones, barriers, zoölogical realms, and the relation of distribution to the origin of species and varieties. Prerequisite, 10 hours of zoölogy. 10:30-11:20. Taylor.

300. THESIS. One to five hours credit. Students working for a degree with a major in the Department of Zoölogy will register in this course for credit in work done in preparation of their thesis. Credit will be given only upon a satisfactory presentation of the subject matter of the thesis before the department faculty. By appointment. Lane or Taylor.

305. GRADUATE SEMINAR. One to five hours credit. Open only to students with graduate standing in zoölogy. By appointment. Lane or Taylor.

325. GRADUATE RESEARCH. One to eight hours credit. Problems in (a) Morphology; (b) systematic and descriptive zoölogy; (c) animal histology; (d) vertebrate paleontology; (e) embryology; (f) genetics; (g) parasitology; (h) cytology; (i) ecology; (j) ornithology; (k) mammalogy. Fee, \$1.50 per hour. By appointment. Lane or Taylor.

