800  Genetics Seminar  
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 12 credits in all enrollments for this course. 
Critical analysis of current literature. Student presentations.

810  Theory and Practice of Teaching Genetics  
Fall, Spring, Summer. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. RB: One year of graduate coursework and satisfactory completion of an undergraduate-level genetics course. International students must have passed the SPEAK test. R: Open to graduate students in the College of Natural Science. 
Techniques and challenges in teaching microbial, molecular, or human genetics at the college level.

825  Molecular and Biochemical Bases of Human Disease  
Spring. 3(3-0) Interdepartmental with Zoology. Administered by Zoology. RB: (ZOL 341) or equivalent general genetics course. Medical genetics. Molecular, biochemical, and diagnostic issues related to human disease. Disease pathophysiology. Ethical, legal, and social issues related to human genetics research.

835  Eukaryotic Molecular Genetics  
Spring. 3(3-0) Interdepartmental with Microbiology and Molecular Genetics. Administered by Microbiology and Molecular Genetics. RB: BMB 462 and ZOL 341 R: Open only to graduate students in the colleges of Agriculture and Natural Resources, Engineering, Human Medicine, Natural Science, Osteopathic Medicine, and Veterinary Medicine. 
Gene structure and function in animals, plants, and fungi. Basic aspects of modern human genetics and the genetic basis for disease. Molecular genetic analyses. Eukaryotic modeling systems.

840  Genetics Writing Skills  
Fall, Spring, Summer. 1(1-0) R: Open to graduate students in the Genetics major. Approval of department. 
Development of a genetics research proposal: content, composition, and peer review through a graduate writing group.

842  Population Genetics, Genealogy and Genomics  
Fall. 3(3-0) Interdepartmental with Animal Science and Crop and Soil Sciences and Forestry and Fisheries and Wildlife and Horticulture. Administered by Forestry. RB: Pre-calculus, basic genetics 

851  Molecular Entomology  
Fall of odd years. 3(3-0) Interdepartmental with Entomology. Administered by Entomology. 
Analysis of molecular processes unique to insects, and their potentials for genetic engineering.