BIOLOGY

BOT 6656 Plant Symbiosis 3 Credits
Grading Scheme: Letter Grade
Examines the crucial role of symbioses in shaping the diversity of life. Topics include generalities among symbioses, origins and establishment of symbioses, and coevolution and cospeciation, as well as specifics of well-studied exemplars of bacterial, fungal, animal, and plant symbioses with plants. 
Prerequisite: BSC2010 (C) & BSC2010L (C) & BSC2011 (C) & BSC2011L (C)

BSC 6038 Broader Impacts of Science on Society 2 Credits
Grading Scheme: Letter Grade
Explores ways in which scientists can increase impacts to society and emphasize the relevance of scientific work. Topics include broadening scientific impacts through exhibits, working with teachers, social media, serving underrepresented groups, and more.

PCB 6675C Evolutionary Biogeography 3 Credits
Grading Scheme: Letter Grade
Interpretation of biological data sets in a biogeographical context. Topics and methods in historical and ecological biogeography will be discussed. 
Prerequisite: Permission of instructor.

PCB 6685 Population Genetics 4 Credits
Grading Scheme: Letter Grade
Provides a comprehensive introduction to the mathematical theory of allele and genotype frequency dynamics within and between populations and will serve as a springboard to more advanced topics in evolutionary biology. Topics covered include deterministic and stochastic processes in evolution and an introduction to classical quantitative genetics theory. 
Prerequisite: Graduate status.

ZOO 6930 Seminar in Molecular Evolution 2 Credits
Grading Scheme: Letter Grade
A seminar course in evolution, genetics, and genomics. The class provides each student the opportunity to lead discussion and to exchange ideas with others on various student-selected topics in any area of the broad interdisciplinary fields of evolution, genetics, and genomics. 
Prerequisite: Graduate student standing or permission of the instructor.