BIOLOGICAL SCIENCES 400
EVOLUTION
96-1

INSTRUCTOR: Felix Breden  SSB 7142  291-5647

The first part of the course provides a firm background in evolutionary theory. We then apply these principles to general topics in evolution, and finally to topics in human evolution.

Background Theory:
Selection, Synthesis with Mendel, and Gene Frequency Change
Inbreeding and Population Structure
Quantitative Genetics

General Topics:
Origin of Life and Evolution of Genetic Systems
Evolution of Genetic Recombination and Sex
Phylogeny and Biogeography
Speciation
Units of Selection: Kin selection and Group selection

Human Evolution:
Origin of Modern Humans
Molecular genetics and human evolution (mitochondrial Eve?)
Cultural Evolution

Required Text: Evolution, by Mark Ridley, Blackwell Scientific

Please note: Non-biology majors should get permission to take this course from Felix Breden, SSB 7142.