BIOLOGICAL SCIENCES 400
EVOLUTION
95-3

Instructor: Dr. Bernard J. Crespi

(1) Introduction

(a) What is Evolution?
(b) The Scientific Method
(c) Evolution and Creation

(2) The Origin and History of Evolutionary Theory

(a) Darwin and the Beagle
(b) Synthesis with Mendelism: Fisher, Haldane and Wright

(3) Natural Selection

(a) Natural Selection, Inheritance, and Evolutionary Change
(b) Units and Levels of Selection

(4) The Mechanisms of Evolutionary Change

(a) Microevolution
(b) Population Structure and Speciation
(c) Macroevolution and Extinction

(5) The Patterns of Evolutionary Change

(a) The Origin of Life and the Evolution of Genetic Systems
(b) The Major Transitions and Radiations of Life
(c) The Origin of Modern Humans

(6) Evolution and Human Society

Required Syllabus readings available for purchase from Bookstore

PLEASE NOTE: Non-biology majors should seek the permission of Dr. Crespi, B9234, to take this course.