



BIOLOGY 495 Independent Research Project in Biology I

Course Outline and Schedule for Fall semester, 2009.

Instructor : Dr. Carol Gibbons Kroeker
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Learning Objectives:

1. Students will gain a greater understanding of fundamental biological principles
2. Student will learn the process of developing and experimental protocol and carrying out the experimental process
3. Students will learn the laboratory techniques essential to research in biology.
4. Students will design and carry out a research project and be able to present this in written and oral formats

This course is the first course of a 2 semester research project (fall and winter) and be worth 3 credits. Students will choose a research topic of choice, perform a literature search and literature summary before writing up a research proposal (identifying a new research question and describing an experimental protocol). Pilot experiments will be completed by the student. This will then be written up in the form of a proposal paper.

Mark Distribution :	Literature Review	20%
	Experiment Proposal	40%
	Experimental design	20%
	Pilot Experimental Work	20%

Grading Scheme

A	90-100%	C	63-66%
A-	85-89%	C-	60-62%
B+	80-84%	D+	54-59%
B	76-79%	D	50-53%
B-	70-75%	F	Below 50%
C+	67-69%		