



COURSE INFORMATION SHEET  
**BIOLOGY 497 – Research Project in Biology B**

Tentative Course Outline and Schedule for winter semester, 2010.

**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 second course of a 2 semester research project (fall and winter) and will be worth 3 credits. Successful completion of Zoology 495 is required.

Using their research proposal (identifying a new research question and describing an experimental protocol) from Zoology 495, experiments will be completed by the student along with a full data analysis and statistical summary. This will then be written up in the form of a research paper that will ultimately be submitted to a recognized biology journal for publication.

**Mark Distribution :**

Experimental Work	30%
Data Analysis	20%
Statistical analysis	10%
Final Research Paper	40%

**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%		