

**CATALOG YEAR 2006-2007**  
**(Please use separate form for each add/change)**

COLLEGE/SCHOOL :

\_\_\_\_\_ College of Arts and Sciences \_\_\_\_\_

Current Catalog Page(s) Affected

\_\_\_\_\_ pp. 260-261 \_\_\_\_\_

**Course:**

(check all that apply)

Add: X Delete: \_\_\_\_\_

Change: Number \_\_\_\_\_ Title \_\_\_\_\_ SCH \_\_\_\_\_

Description \_\_\_\_\_ Prerequisite \_\_\_\_\_

If new, provide Course Prefix, Number, Title, SCH Value, Description, prerequisite, and lecture/lab hours if applicable. If in current catalog, copy and paste the text from the and indicate changes in red.

**BIOL 5290 Graduate Seminar in Biology. Two semester hours.**  
**A seminar on current topics in biology. Emphasis will be on recent research in a field of biology.**  
**May be repeated once when topic changes. Prerequisite: Graduate standing and permission of the instructor.**

Justification: New course for the Master of Science in Biology

Approvals:

Signature

Date

Chair  
Department Curriculum Committee

\_\_\_\_\_

\_\_\_\_\_

Chair  
Department

\_\_\_\_\_

\_\_\_\_\_

Chair  
College Curriculum Committee

\_\_\_\_\_

\_\_\_\_\_

Dean

\_\_\_\_\_

\_\_\_\_\_

# BIOL 5290

## Graduate Seminar in Biology

### I. Course

A seminar on current topics in biology. Emphasis will be on recent research in a field of biology. May be repeated once when topic changes. Prerequisite: Graduate standing and permission of the instructor.

### II Learning Outcomes:

Student will demonstrate:

1. Knowledge of general biological principles to include:
  - a. Awareness of the diversity of life (organismal and evolution).
  - b. Mechanisms which link all forms of life (morphology, cell & molecular biology, genetics & ecology).
2. The ability to think critically and to integrate factual and conceptual information into an understanding of scientific data.
3. Use of the scientific method to distinguish fact from fiction.
4. The ability to organize data and effectively communicate scientific understanding graphically, orally and in writing.
5. The ability to design and carry out scientific research with appropriate controls in a biological discipline.
6. An in depth understanding or competency in a specific area of biological science.
7. The ability to apply knowledge through critical thinking, inquiry, analysis and written communication to solve problems and produce a thesis or research paper.
8. The ability to effectively communicate with others in the biological sciences.
9. The ability to apply mathematical and statistical approaches to model, analyze and interpret biological information.
10. An understanding of professional ethics as applied to biological research in regards to ownership of intellectual properties and authorship, collaborative efforts with colleagues and the importance of strict adherence to the scientific method.