

**I. CATALOG DESCRIPTION**

**A. Department Information:**

Division: Science & Math  
Department: Biology  
Course ID: BIOL 275  
Course Title: Independent Study in Microbiology  
Units: 1-3  
Lecture: None  
Laboratory: 3-9 hours  
Prerequisite: BIOL 270

**B. Catalog Description**

Assigned projects involving research, laboratory work, or directed study for selected students who are interested in furthering their knowledge of microbiology on an independent study basis. For each unit earned, students are required to devote three hours per week throughout the semester. Enrollment limited to those who meet independent study criteria. Prior to registration, a contract must be prepared. See instructor for details.

**C. Schedule Description**

Assigned projects involving research, laboratory work, or directed study for selected students who are interested in furthering their knowledge of microbiology on an independent study basis. Enrollment limited to those who meet independent study criteria. . Prior to registration, a contract must be prepared. See instructor for details.

**II. NUMBER OF TIMES COURSE MAY BE TAKEN FOR CREDIT:** 3, for a maximum of 3 units

**III. EXPECTED OUTCOMES FOR STUDENTS**

Students gain knowledge and skill, which increases the confidence and self-esteem through the successful completion of an independent study course.

**IV. CONTENT:**

Content is appropriate to the project as determined by the supervising faculty member after a comprehensive review of the student's academic history and goals. The content will be specified in the contract agreement between the student and instructor.

**V. METHODS OF INSTRUCTION:**

Methods of instruction will vary with the individual project but will include the following:

- A. guided investigation
- B. suggested reading
- C. mentoring
- D. review, comment, and feedback, both orally and in writing
- E. experiments, demonstrations, reports, or other work products as deemed appropriate by the instructor.

**VI. TYPICAL ASSIGNMENTS:**

- A. Reading Assignments  
Selected assignments as deemed appropriate by the instructor.
- B. Writing Assignments
  - 1. Draft written progress reports during the semester. (An oral report may be substituted as the discretion of the instructor.)
  - 2. A final written project report of composition and format as determined by the instructor.

**VII. EVALUATION:**

The method of evaluation will be specified by the instructor in the contract agreement between the student and instructor. At a minimum these will include:

- A. Regular progress reports by the student to the instructor either orally or in writing.
- B. A final written project report of composition and format as determined by the instructor.

**VIII. TYPICAL TEXTS:** As appropriate for the project

**IX. OTHER SUPPLIES REQUIRED OF STUDENTS:** As appropriate for the project