

# Minnesota State University Moorhead

## BIOL 497: Undergraduate Research in Biology

### A. COURSE DESCRIPTION

Credits: 1,3,2

Lecture Hours/Week: 0

Lab Hours/Week: 0

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Individual research; project and its format must be accepted by the research advisor prior to registration. May be repeated for credit.

### B. COURSE EFFECTIVE DATES: 06/01/1995 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Application of the scientific method, experimental design
2. One-on-one instruction in discipline-specific research techniques, equipment, analysis, as appropriate
3. Interpretation of research results
4. Design and writing of a presentation, publication, or equivalent
5. Read, understand, and utilize primary literature in student project

### D. LEARNING OUTCOMES (General)

1. To build scientific vocabulary specific to the discipline
2. To learn to design a research project and carry out necessary tasks
3. To understand the research process
4. To read and understand primary literature specific to the discipline
5. To collect and analyze data in a meaningful framework
6. To communicate outcomes from research effectively in writing and/or presentation

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

### F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

### G. SPECIAL INFORMATION

None noted