Midland College
Syllabus
2008-2009
BIOL 2189
Academic Cooperative I
1 Semester Credit Hour

Course Description: Biology 2189 is a one semester course designed to integrate on-campus study with practical hands-on work experience in the biological sciences/life sciences. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of living organisms and their systems.

Text, References, and Supplies: Any necessary journal articles will be provided by the instructor.

Course Goals/Objectives: It is expected that the student will acquire knowledge of and experience with applied biological concepts. The student will experience various forms of scientific experimental techniques and data analysis.

Student Contributions and Class Policies: Students will be paired with a facility or faculty member conducting biological research. The student will conduct a small research project under the direct supervision of the mentor. The research project will be orally presented at the conclusion of the semester. It is the students responsibility to contact the instructor in case of an emergency which may hinder the student’s ability to participate in the course. In the event the student is unable to fulfill the requirements of the class, it is the student’s responsibility to drop the course by the scheduled drop date.

Evaluation of Students: A final grade will be determined using the following formula:

- 60% research techniques and participation
- 40% oral presentation

Intellectual Competencies:

1. Reading - Understanding the material incorporated in the readings used in this course will require the student to analyze and interpret various biological concepts.

2. Listening - The primary teaching methods used in this course are discussion and lecture. Understanding the oral presentation of material will require the student to analyze and interpret various biological concepts.

3. Critical Thinking - Critical thinking, as exemplified by problem solving, is inherent in the study of any scientific discipline. Biological problems will be considered, discussed, and analyzed in this course.

ADA Statement: Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the instructor as soon as possible. These conditions may include documented physical or educational disabilities. Please be aware that services or accommodations are not automatic. Each student must request them and secure the proper authorizations.

Course Schedule: See attached schedule.
Exemplary Objectives:

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Instructor Information:

Instructor:

Office Phone:

E-mail:

Office:

Office Hours:

Division Dean: Dr. Margaret Wade, 125 SF, 685-4615

Division Secretary: Ms. Norma Duran, 124 SF, 685-4612

Ms. Brenda Smith, 124 SF, 685-6413

Competencies:

1. To understand and apply method and appropriate technology to the study of the natural sciences.

2. To recognize scientific and quantitative methods and the differences between these approaches and the other methods of inquiry and to communicate findings, analyses, and interpretation both orally and in writing.

3. To identify and recognize the differences among competing scientific theories.

4. To demonstrate knowledge of the major issues and problems facing modern science, including issues that touch upon ethics, values, and public policies.

5. To demonstrate knowledge of the interdependence of science and technology and their influence on, and contribution to, modern culture.