

**Midland College**  
**Syllabus**  
**2022-2023**  
**BIOL 2289**  
**Academic Cooperative – Research Methods**  
**2 Semester Credit Hours**  
**(1 Lecture/4 Lab)**

**Instructor Information:**

Instructor: [Click here to enter text.](#)

Office: [Click here to enter text.](#)

Phone: [Click here to enter text.](#)

Email: [Click here to enter text.](#)

Office Hours: [Click here to enter text.](#)

Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity may be reported as never attended and dropped from the course.
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**Course Description:**

This course will expose students to experimental design, elementary statistics, experiment interpretation, ethics in science, scientific literature, communication of experimental results via technical writing seminar presentation.

**Text, References and Supplies:**

No text required.

**Student Learning Outcomes: (Biology 2289)**

Upon successful completion of this course, students will become competent in experimental design, elementary statistics applied to data sets, interpretations of experimental results, finding and utilizing scientific literature, and communication of experimental results via these formats; a.) written form, and b.) seminar (PowerPoint) presentation. Each student will also have logged at least 30 hours of work in a research lab under the supervision of a mentor.

**Student Contributions, Responsibilities and Class Policies:**

Students will be expected to comply with the policies outlined in the Midland College student handbook. Instructor policies concerning attendance and academic behavior are consistent with the policies in the student handbook. Regular attendance is required to do well in this class.

Students will be evaluated based on the results of examinations given throughout the semester. Your lecture instructor will inform you on the first day of class as to the tentative dates and content for each exam. Students are expected to complete each exam. Your instructor will inform you on the

first day of class as to make-up procedures for missed exams and any exemption procedures if they apply (See Instructor Handout).

The last day for withdrawal is published in the catalog and current course schedule. To drop a course, the student must complete an official withdrawal form with Student Services.

Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the Midland College Student Handbook on this subject.

### **Course Schedule:**

This class will meet online on the Midland College CANVAS site BIOL2289 Academic Cooperative. You will be expected to visit the site weekly for a tentative schedule of the class assignments, to view assignments, submit assignments and add comments to the discussion board. Also you are expected to be working in a mentor's lab at a minimum of 3 hours per week. We will have at least one live meeting at the end of the semester for oral presentations

### **Evaluation of Students:**

<b>Assignments</b>	<b>% of Grade</b>	<b>Grade Range</b>
Discussion Board Submissions	10 %	A=90%
Scientific Literature Review Assignments	40 %	B=80%
Ethics Assignment	10 %	C=70%
Written Report	20 %	D=60%
3 hours/week lab work	20 %	F=below 60%

### **Non-Discrimination Statement**

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individual has been designated to handle inquiries regarding the non-discrimination policies:

#### **Tana Baker**

Title IX Coordinator/Compliance Officer  
3600 N. Garfield, SSC 131  
Midland, Texas 79705  
(432) 685-4781

[tbaker@midland.edu](mailto:tbaker@midland.edu)

For further information on notice of non-discrimination, visit the ED.gov Office of Civil Rights website, or call 1 (800) 421-3481.

**Americans with Disabilities Act (ADA) Statement:**

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must visit [www.midland.edu/accommodation](http://www.midland.edu/accommodation) and complete the Application for Accommodation Services located under the Apply for Accommodations tab. Services or accommodations are not automatic, each student must apply and be approved to receive them. All documentation submitted will be reviewed and a "Notice of Accommodations" letter will be sent to instructors outlining any reasonable accommodations.

**Intellectual Competencies:**

- **READING**-the ability to analyze and interpret a variety of printed materials - books, documents, and articles above 12th grade level.
- **WRITING**-the ability to produce clear, correct and coherent prose adapted to purpose, occasion and audience above 12th grade level.
- **SPEAKING**-ability to communicate orally in clear, coherent, and persuasive language appropriate to purpose, occasion, and audience above 12th grade level.
- **LISTENING**-analyze and interpret various forms of spoken communication, possess sufficient literacy skills of writing, reading above 12th grade level.
- **CRITICAL THINKING**-ability to apply both qualitative and quantitative skills analytically and creatively to subject matter to evaluate arguments and construct alternative strategies.

Competency					Course Number	Course Title
1	2	3	4	5		
X			X	X	BIOL 2289	Academic Cooperative

**Math & Science Division Information:**

Division Office: AHSF 124

(432) 685-4561

Division E-Mail: [mns@midland.edu](mailto:mns@midland.edu)

Department Chair: Mr. Tomas Hernandez

(432) 685-6751

Dean: Dr. Miranda Poage

Secretary: Sarah Anderson

Clerk: Liliana Orcutt