Course Description: Meteorology Lab is designed to complement and expand on the concepts which have been or will be propounded in the lecture portion of the course. Whenever possible the lab activities will implement a “hands on” approach to meteorology.


Supplies Required: The student MUST provide pencils. The use of ink pens will not be permitted. The instructor will provide advanced notice to students concerning other supplies needed for forthcoming lab sessions.

Course Goals/Objectives: Four (4) broad goals are identified for the students of this course. These are:
1. To provide comprehensive knowledge of atmosphere and its changing behavior as it relates to human activities and influence our daily lives.
2. Important learning topics include: Mechanics of the Earth’s atmosphere; environmental problems related to the atmosphere; the atmospheric phenomena of temperature, moisture conditions, atmospheric stability, forms of condensation and precipitation, air pressure and winds, role of air masses, and weather patterns.
3. Acquiring knowledge of the cloud types and explain the phenomena of rainfall, fog, snow, sleet, and frost.
4. Understand the mechanism of weather analysis and forecasting.

Student Contributions, and Class Policies: Students are expected to:
1. Take part in active class discussions and participate in special functions when announced.
2. Attendance is required at all lab sessions and credit deductions will be made for absences unless excused for attending scholastic related activities or other excused absences.
3. Students will be responsible for all assignments covered in the lab. If a student is absent, he or she must ask the instructor about missed activities. Deductions will be made for any work that is late, unless approval is granted by the instructor.
4. Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject.
Grading Scheme: The final grade for Geology 1447 will be determined on the basis of: 75% from the lecture portion of the course and 25% from the laboratory portion. A proposed distribution of the course grade system is shown below:

<table>
<thead>
<tr>
<th>Weather Journal</th>
<th>Labs/Assignments</th>
<th>TOTAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>50%</td>
<td>50%</td>
<td>100%</td>
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</tbody>
</table>

Grades will be determined >>>with no exceptions>>> using the traditional grading ranges as follows: A=90-100, B=80-89, C=70-79, D=60-69, F=below 60.

LATE EXERCISES AND LABS:
A deduction of 25% will be assessed for each day late. It is the responsibility of the student to contact the instructor to arrange to complete and/or turn-in late exercises. NO make-ups for missed weather journal days.

Extra Credit:
10 points extra credit may be earned by 100% Attendance. In addition, 10 points extra credit will be given for attending a field trip. Other opportunities for extra credit may also arise.

Course Schedule:
See Attached Schedule.

Intellectual Competencies:
1. Reading - Understanding the material incorporated in the text used in this course will require the student to analyze and interpret various meteorological 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 meteorological concepts.

3. Critical Thinking - Critical thinking, as exemplified by problem solving, is inherent in the study of any meteorological discipline. Meteorological 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.

Exemplary Objectives for Natural Sciences:

<table>
<thead>
<tr>
<th>Competency</th>
<th>Course Number</th>
<th>Course Title</th>
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</thead>
<tbody>
<tr>
<td>X</td>
<td>X</td>
<td>X</td>
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<tr>
<td>GEOL 1447</td>
<td>Meteorology</td>
<td></td>
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</tbody>
</table>

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.

Instructor Information:

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Division Secretary: Ms. Norma Duran, 124 SF, 685-4612
Ms. Brenda Smith, 124 SF, 685-6413