This is a continuation of PHYS 1415 with an emphasis on enabling students to become generally familiar with areas of chemistry, geology, meteorology, and astronomy. A lab is included, and basic mathematics is required. A lab is included, and basic mathematics is required.

**Text, References, and Supplies:**


Books are discussed during the first class meeting.

Upon successful completion of the course, the student will have a general understanding of scientific methods and the theories of the physical sciences. In addition, the student will have developed a general approach to understanding and analyzing problems in the physical sciences at a level appropriate to the course.

The student is expected to take a mature and active role in his/her educational development during lecture, during lab, and outside of class. MC S

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

Tests will occur approximately once every three weeks and will cover the material since the previous test. The Final Exam is comprehensive. Regular homework problems will be recommended but not required or collected. Any special out-of-class assignments will count in addition to or in place of part or all of the class tests.

Attendance in the lecture class will not count in the grade, but three consecutive classroom hours of unexcused absences or a total of six classroom hours of unexcused absences as reported by the instructor may result in a student being dropped from the rolls with a grade of “W”.

Make-up tests can be arranged in extenuating circumstances. If the student will miss a test for any reason other than an immediate, unforeseen cause (sudden illness, accident, etc.), he/she may take a make-up test only if the instructor is informed of the expected absence prior to the test.

One special rule: In order to pass this course, the student must pass both lecture and lab. For the lab this consists of a minimum 60% average.

The course grade will be determined as follows:

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Lab</td>
<td>20%</td>
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<tr>
<td>5 Tests @ 14% each</td>
<td>70%</td>
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<tr>
<td>Final Exam</td>
<td>10%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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The class meets for 3 lecture hours and 3 laboratory hours each week for the duration of the semester.

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

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

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<tr>
<th>Competency</th>
<th>Course Number</th>
<th>Course Title</th>
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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:

Instructor: Dr. Tom O’Hara

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T  8:30 – 9:30 am; 11 – 12 pm  
W  8:30 – 9 am; 11 – 12 pm; 6 – 7 pm  
Th  8:30 – 9:30 am; 11 – 12 pm  
F  8:30 – 9 am; 11 – 11:30 am

Division Dean: Dr. Margaret Wade (125 SF)  
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Office Phone: 685-4612

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