Course Description: This course provides an introduction to Mineralogy. Mineralogy is a foundation for Geology. Rocks are made of minerals and the occurrence and arrangement of minerals in rocks gives us much of the information we have on the earth’s present and past processes.


Course Goals/Objectives: 1. To familiarize the student with basic concepts, theories and tools of mineralogy.
2. To be able to identify common rock-forming minerals.
3. Be familiar with equipment and techniques for identifying and characterizing minerals.
4. Have an understanding of the relationships between crystal structures of minerals, compositions, and physical properties.
5. To become familiar with the use of the optical microscope.

Student Contributions, and Class Policies: Students are expected to:
1. **Spend at least 1 hour per week for each classroom hour in preparation for class.**
2. Make-up work is considered the ultimate responsibility of the student. Attendance is critical in this class and MC policies may be invoked at the discretion of the instructor: that is, three consecutive classroom hours of unexcused absences or a total of six unexcused classroom hours reported to the registrar may result in an automatic grade of “W.”
3. Provide their own Scan-Tron Form 882 for lecture exams.
4. Make-up exams will only be given to those students who have valid excuses and only within one-week’s time of the originally scheduled exam. Make-up exams will be given during the regular class meeting times. Make-up exams if permitted beyond the one-week grace period will lose one letter grade as a late penalty. **No grades will be dropped.**
5. Midland College does not tolerate scholastic dishonesty or academic misconduct in any form. Please read the MC Student Handbook on this subject.

Evaluation of Students: Grading will be based on exams, quizzes along with homework assignments and class participation performance. Laboratory work will account for 25% of total grade.

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tr>
<td>Exams, Quizzes, Homework</td>
<td>50%</td>
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<tr>
<td>Laboratory Work</td>
<td>25%</td>
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<tr>
<td>Final Exam</td>
<td>20%</td>
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<tr>
<td>Class Participation/Performance</td>
<td>5%</td>
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<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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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 geological 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 geological concepts.

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

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<tr>
<th>Competency</th>
<th>Course Number</th>
<th>Course Title</th>
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<tr>
<td>X</td>
<td>X</td>
<td>GEOL 2409</td>
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Mineralogy & Petrology

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: Joan Gawloski
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Phone: 685-4635

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Office Hours: MW
F:
11:00
0 -
12:00
0
p.m.

TR: 8:00-9:30
a.m.

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125 SF, 685-4615

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124 SF, 685-4612

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