Course Syllabus
UN4000 – Remote Sensing Seminar
College of Science and Arts
Fall 2011

Instructor Information
Instructor: Dr. Lynn R. Mazzoleni, Assistant Professor of Chemistry
Office Location: 402d Chemical Sciences Building
Telephone: (906) 487-1853
E-mail: lrmazzol@mtu.edu
Office Hours: TWR 9:00 – 10:00 am OR by Appointment

Course Identification
Course Numbers: UN4000
Course Names: Remote Sensing Seminar
Lecture Location: U113 Materials and Mining Building
Lecture Times: M 4:05 pm – 4:55 pm
Prerequisites: Junior standing

Course Description
The class, which is required for the minor in Remote Sensing, is intended to provide students exposure to a variety of ways in which remote sensing (broadly defined) can be applied to earth, planetary, and space sciences. Graduate and undergraduate students interested in remote sensing and related topics may take the class. The class may be taken multiple times for credit.

Course Resources

Course Websites
• http://epssi.mtu.edu/seminar/index.html
• Blackboard http://www.courses.mtu.edu

Course Schedule
• September 6, 2011, Iriga Volcano (Philippines): 1 Mother, 2 DADs (debris avalanche deposits) by Engielle Panguican

• September 12, 2011, India’s Place in Precambrian Supercontinents: A latitudinal Study, by Dr. Joeseph Meert, University of Florida
• **September 19, 2011**, The Role of Satellite Derived Information in the Restoration of the Great Lakes, by Dr. Robert Shuchman, Michigan Tech Research Institute

• **September 26, 2011**, How will aerosol-cloud-precipitation-radiation interactions evolve in a warming Arctic?, Dr. Timothy Garrett, University of Utah

• **October 3, 2011**, Richard Honrath Memorial Lecture, Title TBA, by Dr. Michael Hoffman, California Institute of Technology

• **October 10, 2011**, Taking Earth's Pulse and Temperature Using Seismology: Roaring Oceans and Singing Icebergs, by Dr. Richard Aster, New Mexico Institute of Mining and Technology

• **October 17, 2011**, Playing Zeus: Rocket-Triggered Lightning in New Mexico, Ms. Elissa M. Eastvedt, New Mexico Institute of Mining and Technology

• **October 24, 2011**, Advancing measurements of organic aerosols under atmospherically relevant aerosol mass loadings, by Dr. Giuseppe Petrucci, University of Vermont

• **October 31, 2011**, Tropospheric ozone in the Northern mid and high latitudes: The impact of long-range transport of pollution and stratosphere-troposphere exchange, by Dr. Qing Liang, NASA Goddard Space Flight Center

• **November 7, 2011**, Title TBA, by Dr. James Pankow, Portland State University

• **November 14, 2011**, Earthquakes, Hurricanes and other Disasters: A View from Space, by Dr. Ronald T. Eguchi, ImageCat, Inc.

• **November 28, 2011**, Aqueous Phase Sulfate Production in Clouds at Mt. Tai in Eastern China, by Dr. Xinhua Shen, Michigan Technological University

• **December 5, 2011**, Title TBA, by Dr. Emanuele Bonamente, Michigan Technological University

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**Grading Scheme**

**Grading Policy**
Grades will be based on the following:

<table>
<thead>
<tr>
<th>Class Participation</th>
<th>100</th>
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<tbody>
<tr>
<td><strong>Total Points</strong></td>
<td>100</td>
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</tbody>
</table>

**Attendance Policy:** Class participation and attendance will be considered in the final course grade.
MTU Grading System

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Points</th>
<th>G.P.A.</th>
<th>Rating</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>930 -1000</td>
<td>4.00</td>
<td>Excellent!</td>
</tr>
<tr>
<td>AB</td>
<td>880 – 929</td>
<td>3.50</td>
<td>Very good</td>
</tr>
<tr>
<td>B</td>
<td>820 – 879</td>
<td>3.00</td>
<td>Good</td>
</tr>
<tr>
<td>BC</td>
<td>760 – 819</td>
<td>2.50</td>
<td>Above average</td>
</tr>
<tr>
<td>C</td>
<td>700 – 759</td>
<td>2.00</td>
<td>Average</td>
</tr>
<tr>
<td>CD</td>
<td>650 – 699</td>
<td>1.50</td>
<td>Below average</td>
</tr>
<tr>
<td>D</td>
<td>600 – 649</td>
<td>1.00</td>
<td>Inferior</td>
</tr>
<tr>
<td>F</td>
<td>0 - 599</td>
<td>0.00</td>
<td>Failure</td>
</tr>
</tbody>
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Collaboration/Plagiarism Rules

Standards of academic conduct are set forth in the MTU Academic Integrity Code [http://www.studentaffairs.mtu.edu/dean/judicial/policies/academic_integrity.html](http://www.studentaffairs.mtu.edu/dean/judicial/policies/academic_integrity.html). When you registered for this course, you acknowledged your awareness of the Academic Integrity Code and you are obliged to become familiar with your rights and responsibilities as defined by this Code. Violations of the Code will result in disciplinary actions. Examples of violations include plagiarism or receiving inappropriate assistance on homework, quizzes, and/or exams.

**Cell phones, Blackberries, iPods, PDAs, or any other electronic devices are not to be used in the classroom.** Please make sure to bring a standard calculator with you to class. Note: graphing calculators are not permitted for use during exams. Calculators on other devices are strictly prohibited. Information exchanges on these devices during class are also prohibited and violate the Academic Integrity Code of Michigan Tech.

**Cheating is a very serious academic offense.** Therefore, allegations of cheating will be referred to the Dean of Student Affairs for appropriate action. Please see me if you have any questions about academic violations as described in the Code or as they relate to particular requirements in this course.

University Policies

If you have a disability that could affect your performance in this class or that requires an accommodation under the Americans with Disabilities Act, please see me as soon as possible so that we can make appropriate arrangements. The Affirmative Action Office has asked that you be made aware of the following:

*Michigan Tech complies with all federal and state laws and regulations regarding discrimination, including the Americans with Disabilities Act of 1990. If you have a disability and need a reasonable accommodation for equal access to education or services at Michigan Tech, please call the Dean of Students Office, at 487-2212. For other concerns about discrimination, you may contact your advisor, department head or the Affirmative Action Office, at 487-3310*