

# *Physical Geology*

**Geology 1001** Section 1

**Spring 2007**

**Dr. Juan M. Lorenzo**  
Department of Geology and Geophysics

**Lecture times** Monday, Wednesday and Friday 8.30 a.m. -9.30 a.m. Room E137, New Howe

**Office hours** Room 215 (Old Howe-Russell Building) Tuesdays and Thursdays after class  
For appointments and all correspondence

e-mail: [gllore@lsu.edu](mailto:gllore@lsu.edu)

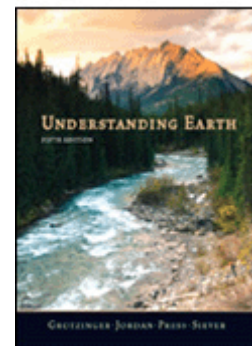
Subject: GEOL1001

**T.A. Office hours** Eric Prokocki(Howe-Russell Building) room E340A Howe-Russell Building t  
noon.; For appointments

e-mail: [egeorock@yahoo.com](mailto:egeorock@yahoo.com)

Subject: GEOL1001

**Required  
lecture  
textbook  
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Understanding Earth by Grotzinger, Jordan, Press, Siever, 5th edition, Fr

**Notes:** The following schedule of classes and their content is modeled on last year's Geology [Syllabus](#) and subject to changes. Dates and times for exams, reviews, and quizzes are not generally subject to change.

Online course material (free registration) is available from

<http://bcs.whfreeman.com/understandingearth5e/default.asp?s=&n=&i=&v=&rau=0>

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## JANUARY

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Lectures		
Wed 17	Example Quiz 1 using Blackboard	Introduction to the Course Syllabus handout-- <a href="#">Geology minor</a>
Fri 19		Ch. 1 Modern Theory and Practice of Geology <ul style="list-style-type: none"><li>• <a href="#">Class notes</a></li></ul>
Mon 22	Quiz 2 (Chs. 1-2)	Ch. 2 Plate Tectonics <ul style="list-style-type: none"><li>• <a href="#">Class notes</a></li></ul>
Wed 24		
Fri 26		

Mon 29	Quiz 3 (Chs. 2-3)	
Wed 31		

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## FEBRUARY

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Lectures		
Fri 2		Ch. 3 Minerals and Rocks <ul style="list-style-type: none"> <li>• <a href="#">Class Notes</a></li> <li>• <a href="#">Periodic table of elements</a></li> </ul>
Mon 5	Quiz 4 (Chs. 3-4)	
Wed 7		
Fri 9		Ch. 4 Igneous Rocks <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> </ul> Not all "granite" <a href="#">counter-tops</a> are made of granite
Mon 12	Quiz 5 (Chs 4-5)	
Wed 14		Ch. 5 Sedimentary Rocks <ul style="list-style-type: none"> <li>• <a href="#">Ch. 5 concepts</a></li> <li>• <a href="#">Class notes</a></li> <li>• <a href="#">Name this martian rock</a></li> </ul>
Fri 16	Quiz 6	
Mon 19	<b>Mardi Gras Holiday</b>	

Wed 21	Mardi Gras Holiday	
Fri 23		
Mon 26	Review for Mid-term I exam Old Exam Questions	<u>Q&amp;A</u>  Quiz 2  Quiz 3  Quiz 4  Quiz 5  Quiz 6
Wed 28	Mid-term exam I	

*\* Mardi Gras Holiday: February 19-February 21 (M-W). Classes resume February 22 at 7.30 a.m.*

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## MARCH

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Lectures		
Fri 2		Ch. 6 Metamorphic Rocks <ul style="list-style-type: none"> <li>Class notes</li> </ul>
Mon 5	Quiz 7	Ch. 7 Deformation <ul style="list-style-type: none"> <li>Class notes</li> <li>Baton Rouge Fault Image</li> </ul>
Wed 7		

Fri 9		
Mon 12	Quiz 8	
Wed 14		Ch. 8 Geologic Time <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> </ul>
Fri 16		
Mon 19	Quiz 9	Ch. 12 Volcanoes <ul style="list-style-type: none"> <li>• <a href="#">Ch. 12 concepts</a></li> <li>• <a href="#">Class notes</a></li> <li>• Volcanic eruption of <a href="#">Nevado del Ruiz, Colombia</a> almost takes life of <a href="#">former LSU professor</a></li> </ul>
Wed 21		
Fri 23		Ch. 9 Early Solar System History <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> <li>• <a href="#">Martian rocks</a> (image)</li> <li>• <a href="#">Opportunity landing</a></li> <li>• <a href="#">Hubble</a></li> <li>• <a href="#">Titan</a></li> <li>• <a href="#">Stardust Comet Mission</a> (NASA)</li> <li>• <a href="#">Particles of the early solar system</a></li> <li>• <a href="#">Weight on Mars</a> and <a href="#">volcanoes</a> on Mars</li> <li>• Topography of <a href="#">Mars (NASA)</a> and <a href="#">Venus</a></li> </ul>

		<a href="#">(link-2)</a> and <a href="#">Moon (link-2)</a>
Mon 26	Quiz 10	Ch 13 Earthquakes <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> <li>• <a href="#">"M10.5" Megaquake- Fact or Fiction??</a></li> <li>• <a href="#">Tsunami visualization</a></li> </ul>
Wed 28	<a href="#">Evidence for water on mars</a> <a href="#">Just the picture</a>	
Fri 30		

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## APRIL

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Lectures		
Mon 2	<i>*Spring Break</i>	
Wed 4	<i>*Spring Break</i>	
Fri 6	<i>*Spring Break</i>	
Mon 9	Quiz 11  Review for Mid-term exam II	<ul style="list-style-type: none"> <li>• <a href="#">Figures from 2006 exam</a></li> <li>• <a href="#">Quiz 7 Q&amp;A</a></li> <li>• <a href="#">Quiz 8 Q&amp;A</a></li> <li>• <a href="#">Quiz 9 Q&amp;A</a></li> <li>• <a href="#">Quiz 10 Q&amp;A</a></li> <li>• <a href="#">2006 Exam Questions</a></li> </ul>
Wed 11	<a href="#">Mid-term exam II</a>	
Fri 13		
Mon 16	Quiz 12	Ch. 14 <a href="#">Inside the Earth</a>

Wed 18		
Fri 20		Ch. 16 <a href="#">Weathering and Erosion</a> <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> <li>• Which is the best tombstone for you? In south <a href="#">Louisiana</a>. In <a href="#">Massachusetts</a>?</li> </ul>
Mon 23	Quiz 13	
Wed 25		
Fri 27		Ch 17 Hydrology <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a></li> </ul>
Mon 30	Quiz 14	Ch 18 Water Transport <ul style="list-style-type: none"> <li>• <a href="#">Class notes</a><a href="#">Class Notes</a></li> </ul>

*\*Spring break: April 2-8 (M-Sun). Classes resume April 9 (M), 7.30 a.m.*

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## MAY

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Lectures		
Wed 2		
Fri 4	Review for final exam  2006 Final Exam	<a href="#">Quiz 11 Q&amp;A</a>  <a href="#">Quiz 12 Q&amp;A</a>  <a href="#">Quiz 13 Q&amp;A</a>

		<a href="#">Quiz 14 Q&amp;A</a> <a href="#">Midterm 1 Q&amp;A</a> <a href="#">Midterm 2 Q&amp;A</a> Chs. 1-9,12-14,16-18
Mon 7	Final Exam 3.00-5.00 p.m.	E137 Howe-Russell Building.

**Course Grades:** Final letter grades are calculated nominally using the results of two (2) midterm exams plus one final exam. A (90-100%) , B (80-89.5%), C (60-79.5%) D (50-59.5%), F (less than 49.5%).

**Quizzes:** Every Monday, via "Blackboard", online quizzes will be available for 10% extra credit to the final, non-curved, grade. Questions in the quizzes can be from the proceeding chapter, i.e. from a chapter that has not yet been covered in class. Ten percent or more of these same questions will be used for midterm and final exams. Midterm exams and final exams only cover the material in those chapters that have been presented in class. These quizzes will be available for completion 24 hours prior to the start of class. An online password will be needed for using "Blackboard." This password will be given out each Friday before the quiz in class. I will not normally supply this password via e-mail.

**Exams:** There will be two mid-term exams and one final exam. The best of the two mid-term exam grades contributes to 40% of final grade. The final exam is worth 60% of final grade. There are no makeup exams or projects. If you choose or happen to miss both mid-term exams, only the final exam will determine the final grade, i.e. the final exam will contribute toward 100% of the final grade. Mid-term exams test cumulative course material covered with special emphasis on new content. All cheating must be reported to the university. Please bring you own "scantron" sheets (LARGE!), pencils and erasers to each exam. Final exam questions cover ALL course materials with emphasis on unexamined sections. All grades are "curved." An example nominal average grade per exam may be about 60% (C). Exams comprise multiple choice, or True/False questions.