



**Course** GEOS 3321 Geology, Resources, and Environment of Latin America  
**Professor** Dr. Ignacio Pujana  
**Term** Fall 2007- 08-16-06 to 11-26-07  
**Meetings** TR 05:30-06:45 PM

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### **Professor's Contact Information**

**Office Phone** 972-883-2461  
**Other Phone** 972-883-2401  
**Office Location** FO 2.616  
**Email Address** pujana@utdallas.edu  
**Office Hours** By appointment  
**Other Information** UTD originated e-mails are the only ones I will read and reply.

### **General Course Information**

**Pre-requisites, Co-requisites, & other restrictions** None

**Course Description** This course is an overview of the natural environment of Latin America, and how this is being impacted by human activity. Topics include evolution of Latin American crust and continent; location and formation of major geologic resources and physiographic features; Resource exploitation and present environmental impact with an historic perspective

**Learning Outcomes**

- This course is designed as an interdisciplinary exploration of several examples of how the physical environments of Mexico, Central America, South America, and the Caribbean have influenced the prehistory, history, culture, and economy of Latin America. This material will be presented as an introduction and 4 modules that stress the role that the physical environment plays in determining culture, development, and history. It will satisfy 3 of the 9 hour science requirement for UTD undergraduates. The course will require the student to partner with correspondents in Latin American universities in a research project Over the semester we will aim to understand the nature of the geological processes in general, and the particular consequences they produce in the land. It will be given emphasis in man and the way different cultures along Latin America adapted to different circumstances. We will consider their historical and cultural implications, and the micro-geographies of culture; and the geographies of development

**Required Texts & Materials** There is no textbook. Power Point presentations used on class will be made available to the students..

**Suggested Texts, Readings, & Materials** The course will use different materials to convey its concerns. Much of the class will revolve around lectures, with discussion time. We will also use of web resources, e-mail (in particular to work with your

correspondent) films, videos and slides.

A very important part the course will be the final project that you will work on as part of a group. There will be two mid-term examinations. The first will assess your knowledge of material covered in weeks 1 to 5; the second will assess your knowledge of material covered in weeks 6 to 10. Each mid-term will count for 20 percent of the final grade. There will also be a geography ‘pretest’ which will tell us how well you know the location of major features in Latin America. This pretest will not count towards your grade.

Term project. A very important part of the course will be a term project. Students will form groups (optimum size: 3 students), each of which will identify and investigate an issue in Latin American geography, resources, or environment. Our goal is to provide an intellectually exciting experience, investigating problems that you have identified, and to provide feedback and supervision for this activity. Course instructors will work with each student to establish contact with a student or faculty member at a Latin American geology or environmental sciences department who is willing to serve as the group’s correspondent, and to inquire about what are the major challenges facing the region that can be related to one of the topics covered in course modules.

Final Exam at the scheduled time.

### Assignments & Academic Calendar

WEEK	DAY		
2	M-August 20	Introduction and Geography pretest	Introduction:
2	W- August. 22	Cultural Geography of Latin America	Module I
3	M- August. 27	Physiography, Geography and Climate of L.A.	
3	W-August 29	Plate tectonics	
4	M-September 3	Geologic setting and evolution of LA	
4	W- September 5	Humans in Latin America and Pre-Columbian Cultures	
5	M- September 10	Pre-Columbian history of gold, silver, and other metals	Minerals Module II
5	W- September 12	Collision of Civilizations	
6	M- September 17	Colonial Silver- Potosí (Bolivia) and Guanajuato (Mexico)	
6	W- September 19	Postcolonial Mining and Development: The Chilean Example	
7	M- September 24	Review for mid term	
7	<b>W- September 26</b>	<b>First Mid Term</b>	
8	M-October 1	Oil and Gas Basics	Energy & Natural Hazards, Module III
8	W-October 3	Oil and Gas in LA	
9	M- October 8	Organizational Meeting about projects	
9	W- October 10	Geothermal Energy	
10	M- October 15	L A Earthquakes	

10	W- October 17	L A Volcanic Hazards	Water and Environment , Module IV
11	M- October 22	El Niño	
11	W- October 24	Glaciers and Climate Change in Latin America	
12	M-October 29	Amazon River	
12	W- October 31	Groups and Projects must be pre approved	
13	M- November 5	<b>Second Mid Term</b>	
13	W- November 7	Rain Forest	
14	M- November 12	Coral Reefs	
14	W- November 14	U.S. Mexico Water I	
16	M- November 19	U.S. Mexico Water II	
16	W- November 21	<b>Project Day- Presentation of projects</b>	
	M-November 26	<b>Project Day- Presentation of projects</b>	
	M- August. 26	<b>Semester ends</b>	
	Final week	<b>Final Exam</b>	

### Course Policies

<b>Grading (credit) Criteria</b>	<p>Your final grade will be made up as follows:</p> <table style="margin-left: 20px;"> <tr> <td>Attendance and participation</td> <td style="text-align: right;">10 percent</td> </tr> <tr> <td>Mid term examinations</td> <td style="text-align: right;">40 percent (20 percent for each mid-term)</td> </tr> <tr> <td>Term project</td> <td style="text-align: right;">30 percent</td> </tr> <tr> <td>Final</td> <td style="text-align: right;">20 percent</td> </tr> </table> <p>The final grade is based on the following percentile divisions A+: 97.1-100; A: 93.1-97; A-: 90.1-93; B+: 87.1-90; B: 83.1-87; B-: 80.1-83; C+: 77.1-80; C: 73.1-77; C-: 70.1-73, D=60.1-70, F&lt;60.</p>	Attendance and participation	10 percent	Mid term examinations	40 percent (20 percent for each mid-term)	Term project	30 percent	Final	20 percent
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Final	20 percent								
<b>Make-up Exams</b>	Tests will be taken only during the scheduled in-class period, unless the instructor agrees to reschedule an individual's test as the result of a prior agreement, or a doctor's excuse certifies the student was too ill to attend class the day of the examination. If you have health problems, or extenuating circumstances, please contact the instructor as soon as possible so arrangements can be made.								
<b>Extra Credit</b>	Attendance may count as much as 5 % of your grade.								
<b>Late Work</b>	none								
<b>Special Assignments</b>	None								
<b>Class Attendance</b>	Highly Recommended								
<b>Classroom Citizenship</b>	According with UTD guidelines								
<b>Field Trip Policies</b>	No Field trip								
<b>Student Conduct and Discipline</b>	<p>The University of Texas System and The University of Texas at Dallas have rules and regulations for the orderly and efficient conduct of their business. It is the responsibility of each student and each student organization to be knowledgeable about the rules and regulations which govern student conduct and activities. General information on student conduct and discipline is contained in the UTD publication, <i>A to Z Guide</i>, which is provided to all registered students each academic year.</p> <p>The University of Texas at Dallas administers student discipline within the procedures of recognized and established due process. Procedures are defined and described in the <i>Rules and Regulations, Board of Regents, The University of Texas System, Part 1, Chapter VI, Section 3</i>, and in Title V, Rules on Student Services and Activities of the university's <i>Handbook of Operating Procedures</i>. Copies of these</p>								

	<p>rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations (SU 1.602, 972/883-6391).</p> <p>A student at the university neither loses the rights nor escapes the responsibilities of citizenship. He or she is expected to obey federal, state, and local laws as well as the Regents' Rules, university regulations, and administrative rules. Students are subject to discipline for violating the standards of conduct whether such conduct takes place on or off campus, or whether civil or criminal penalties are also imposed for such conduct.</p>
<b>Academic Integrity</b>	<p>The faculty expects from its students a high level of responsibility and academic honesty. Because the value of an academic degree depends upon the absolute integrity of the work done by the student for that degree, it is imperative that a student demonstrate a high standard of individual honor in his or her scholastic work.</p> <p>Scholastic dishonesty includes, but is not limited to, statements, acts or omissions related to applications for enrollment or the award of a degree, and/or the submission as one's own work or material that is not one's own. As a general rule, scholastic dishonesty involves one of the following acts: cheating, plagiarism, collusion and/or falsifying academic records. Students suspected of academic dishonesty are subject to disciplinary proceedings.</p> <p>Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university's policy on plagiarism (see general catalog for details). This course will use the resources of turnitin.com, which searches the web for possible plagiarism and is over 90% effective.</p>
<b>Email Use</b>	<p>The University of Texas at Dallas recognizes the value and efficiency of communication between faculty/staff and students through electronic mail. At the same time, email raises some issues concerning security and the identity of each individual in an email exchange. The university encourages all official student email correspondence be sent only to a student's U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account. This allows the university to maintain a high degree of confidence in the identity of all individual corresponding and the security of the transmitted information. UTD furnishes each student with a free email account that is to be used in all communication with university personnel. The Department of Information Resources at U.T. Dallas provides a method for students to have their U.T. Dallas mail forwarded to other accounts.</p>
<b>Withdrawal from Class</b>	<p>The administration of this institution has set deadlines for withdrawal of any college-level courses. These dates and times are published in that semester's course catalog. Administration procedures must be followed. It is the student's responsibility to handle withdrawal requirements from any class. In other words, I cannot drop or withdraw any student. You must do the proper paperwork to ensure that you will not receive a final grade of "F" in a course if you choose not to attend the class once you are enrolled.</p>
<b>Student Grievance Procedures</b>	<p>Procedures for student grievances are found in Title V, Rules on Student Services and Activities, of the university's <i>Handbook of Operating Procedures</i>.</p> <p>In attempting to resolve any student grievance regarding grades, evaluations, or other fulfillments of academic responsibility, it is the obligation of the student first to make a serious effort to resolve the matter with the instructor, supervisor, administrator, or</p>

	<p>committee with whom the grievance originates (hereafter called “the respondent”). Individual faculty members retain primary responsibility for assigning grades and evaluations. If the matter cannot be resolved at that level, the grievance must be submitted in writing to the respondent with a copy of the respondent’s School Dean. If the matter is not resolved by the written response provided by the respondent, the student may submit a written appeal to the School Dean. If the grievance is not resolved by the School Dean’s decision, the student may make a written appeal to the Dean of Graduate or Undergraduate Education, and the dean will appoint and convene an Academic Appeals Panel. The decision of the Academic Appeals Panel is final. The results of the academic appeals process will be distributed to all involved parties.</p> <p>Copies of these rules and regulations are available to students in the Office of the Dean of Students, where staff members are available to assist students in interpreting the rules and regulations.</p>
<p><b>Incomplete Grades</b></p>	<p>As per university policy, incomplete grades will be granted only for work unavoidably missed at the semester’s end and only if 70% of the course work has been completed. An incomplete grade must be resolved within eight (8) weeks from the first day of the subsequent long semester. If the required work to complete the course and to remove the incomplete grade is not submitted by the specified deadline, the incomplete grade is changed automatically to a grade of <b>F</b>.</p>
<p><b>Disability Services</b></p>	<p>The goal of Disability Services is to provide students with disabilities educational opportunities equal to those of their non-disabled peers. Disability Services is located in room 1.610 in the Student Union. Office hours are Monday and Thursday, 8:30 a.m. to 6:30 p.m.; Tuesday and Wednesday, 8:30 a.m. to 7:30 p.m.; and Friday, 8:30 a.m. to 5:30 p.m.</p> <p>The contact information for the Office of Disability Services is:  The University of Texas at Dallas, SU 22  PO Box 830688  Richardson, Texas 75083-0688  (972) 883-2098 (voice or TTY)</p> <p>Essentially, the law requires that colleges and universities make those reasonable adjustments necessary to eliminate discrimination on the basis of disability. For example, it may be necessary to remove classroom prohibitions against tape recorders or animals (in the case of dog guides) for students who are blind. Occasionally an assignment requirement may be substituted (for example, a research paper versus an oral presentation for a student who is hearing impaired). Classes enrolled students with mobility impairments may have to be rescheduled in accessible facilities. The college or university may need to provide special services such as registration, note-taking, or mobility assistance.</p> <p>It is the student’s responsibility to notify his or her professors of the need for such an accommodation. Disability Services provides students with letters to present to faculty members to verify that the student has a disability and needs accommodations. Individuals requiring special accommodation should contact the professor after class or during office hours.</p>
<p><b>Religious Holy Days</b></p>	<p>The University of Texas at Dallas will excuse a student from class or other required activities for the travel to and observance of a religious holy day for a religion whose places of worship are exempt from property tax under Section 11.20, Tax Code,</p>

	<p>Texas Code Annotated.</p> <p>The student is encouraged to notify the instructor or activity sponsor as soon as possible regarding the absence, preferably in advance of the assignment. The student, so excused, will be allowed to take the exam or complete the assignment within a reasonable time after the absence: a period equal to the length of the absence, up to a maximum of one week. A student who notifies the instructor and completes any missed exam or assignment may not be penalized for the absence. A student who fails to complete the exam or assignment within the prescribed period may receive a failing grade for that exam or assignment.</p> <p>If a student or an instructor disagrees about the nature of the absence [i.e., for the purpose of observing a religious holy day] or if there is similar disagreement about whether the student has been given a reasonable time to complete any missed assignments or examinations, either the student or the instructor may request a ruling from the chief executive officer of the institution, or his or her designee. The chief executive officer or designee must take into account the legislative intent of TEC 51.911(b), and the student and instructor will abide by the decision of the chief executive officer or designee.</p>
<p><b>Off-Campus Instruction and Course Activities</b></p>	<p>Off-campus, out-of-state, and foreign instruction and activities are subject to state law and University policies and procedures regarding travel and risk-related activities. Information regarding these rules and regulations may be found at <a href="http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm">http://www.utdallas.edu/BusinessAffairs/Travel_Risk_Activities.htm</a>. Additional information is available from the office of the school dean.</p>

*These descriptions and timelines are subject to change at the discretion of the Professor.*