

Geology 1303 – physical geology; 1:00 PM-1:50 PM, MWF;Harold Gurrola, rm 311, email: harold.gurrola@ttu.edu, phone 742-3299**Text:** Understanding Earth 5th ed.; Press, Grotzinger et al.**Office hours:** by appointment arranged by email (harold.gurrola@ttu.edu) or phone (742-3299).

With 200 students my setting fixed office hours never match your off time. So email, call or talk to me in class if you need to meet.

Grading: A+ > 96, A > 93%, A > 90; B > 87%, B > 83%, B > 80%; C > 75%, C > 70%, C > 65%; D > 55%. There will be four tests, each worth 25% of the overall grade. The final exam will be optional. It will replace lower test grades and any missing test grades.

Absences: **There will be no make up quizzes. Do not skip any quizzes!!!!** . The final exam grade will replace the grade of any and all missing exams.

Week of	Notes	Class subjects and test
1-11-2010	Class 1 & 2	No Class Monday scientific method, CH 1, Whole Earth Structure
1-18-2010	Class 3, 4, 5	No Class Monday Plate tectonics CH 2
1-25-2010	Class 6, 7	Plate tectonics CH 2
2-1-2010	Class 9 Class 8	Chemistry CH 3 Friday 2-5-2010, Test 1
2-8-2010	Class 10, 11 Class 12, 13	Minerals CH 3 Igneous Rocks CH 4
2-15-2010	Class 13, 14 Class 15, 16	Igneous Rocks CH 4 Sedimentary rocks CH 5
2-22-2010	Class 17, 18	Sedimentary rocks CH 5
3-1-2010	Class 19, 20 Class 21	Metamorphic rock CH 6 Test 2, Friday 3-5-2010
3-8-2010	Class 22, 23 Class 24, 25	Deformation CH7 Geologic Time CH8
3-15-2010		Spring Break, week off
3-22-2010	Class 24, 25 Class 26	Geologic Time CH8 Geologic Time CH8
3-29-2010	Class 27, 28, 29 Class 30, 31	Early terrestrial History CH 9 Evolution of Continents CH 10
4-5-2010	No class Monday Class 32 Class 33	Monday no class Test 3, Wednesday, 4-7-2010 Volcanoes, CH12, Friday
4-12-2010	Class 34 Class 35	Earthquakes CH 13 Exploring Earths Interior CH 14
4-19-2010	Class 36 Class 37	Weathering, erosion and mass wasting CH 16 Hydraulic Cycle and ground water CH 17 Stream Transport CH18
4-26-2010	Class 38 Class 39, 40	Test 4 Monday 4-26-2010 Stream Transport CH18, Winds and Deserts CH 19 Coastlines and Ocean Basins CH20
5-3-2010	Class 41	Monday is the last day of class Human impact on Earth's System CH 23
5-11-2010	Tuesday 1:30	FINAL EXAM, TUESDAY, 5-11-2010, 1:30-4:00 PM

Expected Learning Outcomes:

The objectives of this class will be to provide the students with a basic understanding of:

- 1) What science is;
- 2) How science works (i.e. the scientific method, how it is applied in geology);
- 3) Basic structure of the Earth and how the Earth formed;
- 4) The materials the Earth is made of and how they behave;
- 5) Surface processes;
- 6) Plate tectonics.

Methods of assessing outcomes:

Test review: To help me and the students evaluate their performance on each test we will have a class discussion after the test. This will help me identify material that needs better coverage and provide feedback as to why students have trouble with certain material. It will also give students a chance to

Test Questions: The test questions will be categorized by type of material (e.g. Earth materials, tectonics, etc). I will take average scores for the various categories of material and compare it with results from previous semesters. This will be used to identify material that is not being understood as well as other material. This will help identify those topics that need additional coverage and to track improvement in these areas.

Assessment Questionnaire: You will do an assessment questionnaire (test) the first day of class. This will not result in a grade it is for assessment purpose only. Similar questions will be on the final exam. By comparing the answers on the final with those of the assessment questionnaire I will be able to determine how much the class improved your understanding of the geological principles covered in the class.

Special Arrangements:

Any student who, because of a disabling condition, may require some special arrangements in order to meet course requirements should contact the professor at the beginning of the semester so that accommodations can be made. Student must typically register with *Student Disability Services*.