

UNDERGRADUATE CURRICULUM PROPOSAL COVER SHEET

MAR 10 2011

Title of Proposal - Must begin with Department Abbreviation:

GEOL Prerequisite removal for Physical Geology 1110

Check One: [X] Full Proposal or [ ] Information Item

Effective Date for Curricular Offering: Fall 2011

FROM: Ann Holmes, Geology, 218 Grote, X1704; Ann.Holmes@utc.edu

(proposal originator: include spokesperson's name, department, office number, telephone, e-mail)

Does this require new resources from the originating department or other department? no
Please include an explanation if yes.

Faculty of the originating department approved this proposal on 17 February, 2011 (date),
by a vote of 4 aye votes; 0 nay votes; 0 abstentions; 0 eligible voting members absent.

The following have examined this proposal:

Dept Head/Director: Habte Churnet
Printed name Signature, date Approve Neutral Disapprove\*

College Curriculum Committee Date: Vote: Signature of Chair:

Spokespersons for Affected Departments:

Printed Name, Department Signature, Date Approve Neutral Disapprove\*
[Blank lines for signatures]

Dean/Director: H. Barkhenn
Printed name Signature, date Approve Neutral Disapprove\*

University Registrar: Linda Orth
Printed name Signature, date Comments

Provost/Representative: J Sanders
Printed name Signature, date Approve Neutral Disapprove\*

Lab/studio fee requested: [ ]

Provost: Phil Oldham
Printed name Signature, date Approve Disapprove\*

\*Those who disapprove may attach an explanation

Table with columns: ACTIONS on this proposal, Curriculum Committee, Faculty Senate. Rows include Date the proposal was considered, Vote of the body, Accepted as information item, Approved as submitted, Approved with amendments, Signature of Chair.

Handwritten notes: Banner Catalog 3-22-11 AC, Catalog Catalog 3-22-11 ce

March 10 2011

Curriculum Committee Full Proposal  
Geology Program of Department of Physics, Geology & Astronomy

**Summary**

Change in prerequisites

Geology 1110 Physical Geology

Remove the Math prerequisite language

**Rationale for change:**

Due to Banner's inability to deal with registering students who have taken higher than the stated Math prerequisites, the department would like to remove the prerequisite Math language for Physical Geology. We would like to delete language referring to field trips. While we do conduct walking tours in laboratory classes, we do not run field trips for the large lecture sections.

**Current Course Description in UTC catalog**

GEOL 1110 - Physical Geology

(3) Credit Hours

Introduction to geology with emphasis on the origin of Earth, geological materials (minerals, rocks), geological processes and events (mountain building, erosion, earthquakes, volcanic activity) and geological features (oceans, land forms). Field trips. Every semester. Prerequisite: Math ACT subscore of 22 or higher, MATH 1006 or department head approval. Corequisite: GEOL 1110L laboratory, or department head approval.

**Proposed Course Description for 1110 Physical Geology**

Introduction to geology with emphasis on the origin of Earth, geological materials (minerals, rocks), geological processes and events (mountain building, erosion, earthquakes, volcanic activity) and geological features (oceans, land forms). ~~Field trips.~~ Every semester. Prerequisite: ~~Math ACT subscore of 22 or higher, MATH 1006 or department head approval.~~ Corequisite: GEOL 1110L laboratory, or department head approval.


October 27 2011

Addendum to Curriculum Committee Proposal 11-100

Submitted March 2011

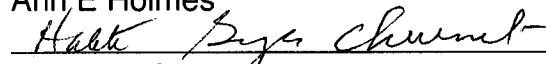
**Impact statement for dropping the prerequisite math for Physical Geology 1110**

Students entering or attending UTC should be prepared for the level of math that is utilized in Physical Geology 1110. We employ basic operational math as well as rudimentary algebra (solving for X). We do not expect many students to have increased difficulty with those parts of the course that require these skills. Other factors that affected our decision include: in the future, Math Department will no longer offer Math 1006, and UTC has raised admission standards.



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Ann E Holmes



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Habte G. Churnet, Department Head

**Physical Geology Syllabus**  
**Spring 2011**  
**Section 3**

**COURSE:** GEOL 1110, section 3, CRN 20133

**TITLE:** Physical Geology

**CLASS SCHEDULE:** 10:50-12:05, TTh, Grote 103

**CREDIT:** 3 hours

Corequisite: 1110 lab

Prerequisite: 2 years of high school algebra or MATH 106

**FACULTY:** Ann E Holmes, Grote 218D, 425-1704, Office Hours: 10:00-10:30 M-F, 2:00-3:00 M-W, or by appointment. [Ann-Holmes@utc.edu](mailto:Ann-Holmes@utc.edu) *Email inquiries will be replied to as soon as possible, usually within 24 hours.*

**ADA STATEMENT:** Attention: If you are a student with a disability (e.g. physical, learning, psychiatric, vision, hearing, etc.) and think that you might need special assistance or a special accommodation in this class or any other class, call the Office for Students with Disabilities at 425-4006, come by the office - 102 Frist Hall or see <http://www.utc.edu/OSD/>

If you find that personal problems, career indecision, study and time management difficulties, etc. are adversely affecting your successful progress at UTC, please contact the Counseling and Career Planning Center at 425-4438 or <http://www.utc.edu/Administration/CounselingAndCareerPlanning/>

**Course Description:** Geology 1110 is an introductory course in geology with emphasis on geologic materials (e.g. minerals, rocks), geologic processes and events (e.g. mountain building, earthquakes, volcanic activity), and geologic features (e.g. oceans, landforms). Topics are discussed in the contexts of geologic time, plate tectonics and historical developments.

**Text:** *Visualizing Geology*, Murck, Skinner, McKenzie, 2<sup>nd</sup> edition  
ISBN-13 978-0-470-41947-2

Textbook web page: <http://www.wiley.com/college/murck> Study-and-review materials are available at this website. Usually, students who make good grades use this site frequently. WileyPlus has a website with interactive learning tools for ~\$30; a good investment if you don't learn well out of textbooks or from lectures.

Course material is available on Blackboard. Here you will find lecture outlines, some assignments and online quizzes, and study guides for exams. We will also complete worksheets in class as assignments.

### **General Education Natural Science courses:**

Note: **Both** lecture (Geology 1110) and lab (Geology 1110L) **must be taken** in order to receive general-education credit. Grades are calculated and reported separately for lecture and lab. This sequence meets General Education requirements for Natural Science category with a lab.

### **Course Goals:**

This GenEd Natural Science course aims to develop the following skills in students:

- think analytically, logically, creatively, reflectively about natural & abstract structures
- collect, process, interpret, & use quantitative & qualitative information, using up-to-date methods, to define & defend viewpoints, solve problems, & make decisions
- communicate effectively, especially in writing & speech; engage in civil debate; & collaborate on common tasks
- incorporate into their world views a comparative, historical, & global perspective on the diversity of the human experience, including the complex factors that shape individuals, societies, & civilizations as well as knowledge itself

### **Other Natural Science General Education Courses:**

Geology 1110 (with Geology 1110L), Geology 1120 (with Geology 1120L), Geology 1160, *Current Geologic Perspectives*, and Geology 2250, *Oceanography*, are all general-education courses that meet the natural science requirement. As a general education (GenEd) course, Physical Geology 1110/1110L requires that students' writing will count for no less than 10% of the final grade.

Geology 1110 (with Geology 1110L) is a prerequisite for many of the geology courses offered at UTC. Students who are interested in becoming geology majors are encouraged to take *Historical Geology* (Geology 1120 and Geology 1120L), which focuses on the science of interpreting Earth's history and challenges students to apply and expand upon principles and knowledge of physical geology.

Additionally, you might consider taking GEOL 4996r Field Experience offered during spring semesters. Physical Geology 1110 is the only prerequisite. Destinations for the field trip alternate between Costa Rica and the desert Southwestern United States. The Costa Rica trip will be offered in Spring 2011. It is a seminar course, which meets 1 day a week and culminates with a 10-day field excursion in the interval between finals and the beginning of summer classes. It's a great way to get an upper-level science course and have a great time while doing so.

**Exams: Exams are comprehensive.** The second, third, and final exams will emphasize the material covered since the previous exam, but will include material tested in the previous exams. Exams contain multiple-choice questions that use SCANTRON (bubble-form) grading. The instructor will provide the scantron forms. Exams may require simple computations that do not involve a calculator. There will also be at least one essay question that requires a concisely written answer (several well-composed sentences, plus pertinent diagrams) and counts for no less than 10% of each exam. If you miss either exam

#1 or #2, the subsequent exam grade will be used in place of the missed exam and use the missed exam's percentage of your grade. Please confer with me if you miss an exam. **Exam #3 must be taken.**

**Grades:** The *final numerical grade* for this class will be computed as follows.

18 %	Exam 1 (Th Feb 10th)	_____	x 0.18 =	_____.
22 %	Exam 2 (Th Mar 10th)	_____	x 0.22 =	_____.
25 %	Exam 3 (Th Apr 21st)	_____	x 0.25 =	_____.
25 %	Final Exam (Th Apr 28 <sup>th</sup> )	_____	x 0.25 =	_____.
10 %	average of assignments	_____	x 0.10 =	_____.
	<i>sum for TOTAL (Final numerical grade)</i>	=		_____.

The *final letter-grade* for this class will conform to the following scale, based upon the computed *final numerical grade*. F≤59.9, D=60-69.9, C=70-79.9, B=80-89.9, A=90-100

**Other Policies:** Students are expected to attend class regularly. Attendance and participation will be considered in the final grade. Students are expected to be punctual, prepared for class, attentive, and respectful of others. Cell phones should be on vibrate. Class time should not be spent text-messaging, talking or listening to an MP3 player. Assignments should be turned in on time. You have up to one week to complete and submit a late assignment for partial credit - the more time you take, the fewer points you get. Assignments turned in later than one week are not accepted. Students who arrive late for an exam after students have left will not be permitted to take the exam.

All students are expected to follow the UTC honor code. The instructor reserves the right to submit papers to UTC Online text-matching software (SafeAssign) for review and analysis of originality and intellectual integrity. If the results of this review indicate academic dishonesty, disciplinary action may be taken as outlined in the UTC Student Handbook.