

Room 114. Bretske Hall **Lecture Time:** Tuesday and Thursday: 10:50 AM - 11:20 AM

[http:// www.utc.edu/Faculty/Habte-Churnet/geol307/](http://www.utc.edu/Faculty/Habte-Churnet/geol307/)

Textbook: None. **Materials:** Mac-formatted diskettes. Obtain access registration for WWW

References: As provided in class. Churnet, H.G, 1997, Seeing Southeastern Geology through Chattanooga; Miller, R. A., 1974, The Geologic History of Tennessee; Tenn. Div. Geol. Bull., 74; Luther, E. T., 1977, Our Restless Earth, The Geologic regions of Tennessee; Wilson and Sterns, 1968, The Wells Creek Structure, Bull 68, Tenn. Div. Geol.; Stearns and others, 1984, Description and significance of the Gravity field in the Reelfoot Lake region of northwestern Tennessee. DNAG, 1989, F-2Volume.

Course objective. Study of the geological history of Tennessee, with emphasis on the East Tennessee.

Tentative schedule. See attached document for semester work.

Date: T T	Lecture subject	Reading	Activity
Aug 24	Introduction. Physiographic Divisions	HGC's bk	sketching Appalachians
26	Physiographic Division, Plate tectonics	Discovering	HGC Poster- shorten
31	Plate tectonic reconstruction		
Sept 2	Stratigraphic packages of east Tennessee	DNAG	Unconformity bounded
7	Deformation structure, faults and folds		
9	>>		
14	Detailed stratigraphy of East Tennessee		
16	Sedimentary rocks, carbonates		caves
21	Siliciclastics- terrestrial		
23	Siliciclastics -turbidites		Turbidite facies
11	Friday afternoon trip to Suck Creek		Suck Creek photomosaic
28	No class. day 11 substituted		
30	Test 1		
Oct 5	Metamorphism of Blue ridge rocks	Discovering	Barrovian sequence
7	Metamorphic structures		S-c structures
9	Field trip to Tellico Plains		
12	No class. day 9 substituted		
14	Geology of West Tennessee	Luther	Make poster for West TN
19	>>		
21	Impact structures of Tennessee	Sterns	Wells Creek structure
26	Earthquakes of Tennessee		New Madrid earthquakes
28	>>		East Tennessee Seismic Z
Nov 2	Metallic deposits of Tennessee		Mascot Jefferson District
4	Metallic deposits of Tennessee		Copper hill
6	Saturday trip to Tucklechee Cove		
9	Fossil fuels of Tennessee		
11	No class.-instead Nov. 6 trip>>		
16	Test 2		
18	Fossil fuels of Tennessee		Cumberland Plateau
23	Thanksgiving break	M-1,-8	
24	Thanksgiving break		
30	Discussion on Unrag's observations		
Dec 2	>>	M-9, -13	
7	Reading day		
9	Final Exam. 11:00 AM to 1:00 PM		

Grading policy test will be successively cumulative, and the final will be comprehensive.

2 tests 20% = percent each; semester work book = 20%; final exam = 40%.

Grades: A = 90 - 100, B = 80 - 89, C = 70 - 79; D = 60 - 69, F = 0 - 59.

ADA Statement: 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/College Access Program at 425-40006 or come by the office - 110 Frist Hall.