

GEOL 1122 Schedule for Fall 2019 9:30-10:45
as revised after the fire alarm of 8/20/2019

Lxr	Date	Topic or Business	Reading* (see notes below)
<i>Part I. Basic Materials in Historical Geology</i>			
1	8/15/19	Introduction; Minerals	Syllabus (read it!); 31-35, website resources
2	8/22/19	Igneous & Metamorphic Rocks; Isotopes	35-38 45-47; 28-29 235-236; website resources; CS #1
3	8/27/19	Sedimentary Rocks, and Fossils	6-7; 38-45; 98-102 [103-126]; 52-55; website resources
4	8/29/19	Structural Geology & Plate Tectonics	186-201; 209-2011; website resources
<i>Part II. Basic Principles and Geologic Time</i>			
5	9/03/19	Goals and Theories	"What is Science?"(a website resource); CS #21
6	9/05/19	Correlative and Relative Dating	146-148; website resources; CS #7
7	9/10/19	Absolute Dating	141-144; [28-29 on isotopes]; website resources; CS #3
8	9/12/19	Age of the Earth & Geologic Time Scales	140-141; 10-13; 150-151; website resources
-	9/17/19	Exam I	--
<i>Part III. Biological Evolution of the Earth</i>			
9	9/19/19	Explanations of Biological Evolution	156-162; website resources
10	9/24/19	Mechanics of Biological Evolution	162-180; website resources; CS #10
11	9/26/19	Precambrian & Cambrian Life	268-272; 281-287; 304-311, website resources; CS #11
12	10/01/19	Evolution of Vertebrates I	73-77; 335-338; 341-345; 367-371; website resources
13	10/03/19	Evolution of Vertebrates II (Dinosaurs)	399-411 (incl. ESS 16-1); website resources; CS #13
14	10/08/19	Evolution of Vertebrates III	396-398; 429-433; 457-458; ESS 17-1
15	10/10/19	Evolution of Mammals & Hominids	454-457; 509-519; website resources
-	10/15/19	Exam II	(Withdrawal deadline = October 17, 2019)
<i>Part IV. Environmental Evolution of the Earth</i>			
16	10/17/19	Evolution of the Earth	257-266; [191]; 297-299; 345; 350-352; 379-381; maps in cover and on 277, 297-299, 303, 317, 319, 359, 372, 375, 391, 411, 423, 434, 451, 461; website resources; CS #16
17	10/22/19	Evolution of the Ocean & Atmosphere	259; 272; 287; 227-243; website res.; CS #14&15
18	10/24/19	Phanerozoic Sea Level; O isotopes	148-151; 231-235; website resources
19	10/29/19	Climate, Cretaceous, & PETM	435-457; 460-465;
20	10/31/19	The Cenozoic; glaciers	485-489; website resources; CS #12
21	11/05/19	Quaternary Glaciation	108-109; 489-494; website resources
22	11/07/19	The Last 120,000 years	ESS 19-1 on 490-491; website resources
23	Online	The Holocene I: Changing the World	Website
24	11/12/19	The Holocene II - 11,700 years	524-538; website resources
25	11/14/19	The Holocene III - 20th-21st Century Enviro Issues	website resources
26	Online	The Holocene IV: Resource Issues on a Finite Earth	
27	11/19/19	The Holocene VA - Greenhouse effect & global climate	540-546; website resources
28	11/21/19	The Holocene VB - Greenhouse effect & global climate	540-546; website resources
29	Online	The Holocene VI: Alternatives for the Late Holocene	Website
30	11/26/19	The Holocene VII - Changing ecologies	Website resources; CS #4
31	12/03/19	Summary and Review	Website resource: The Land Ethic Revisited
-	12/10/19	Final Exam 8:00-11:00 am Room 200A GG (there are no conflicting exams)	

*Notes regarding readings:

All readings are in Stanley and Luczaj's *Earth System History* (4th edn), except for web pages linked from the course website, and for numbers labeled "CS", which are numbers for stories in *Creation Stories from around the World*, a publication linked from the course website.

Pages in brackets are suggested reading that may make lecture material easier to understand.

Readings do not include "Earth System Shift" ("ESS") inserts unless specifically noted.

Undiscussed CS reading assignments roll over to the next class meeting.

This schedule is subject to change as posted on the course web page. In the event that the University of Georgia cancels a meeting of this class, all other class activities move to the subsequent meeting, so that the Summary and Review moves to December 4. The date and time of the final exam would not be changed by a cancellation during the semester.