Course Syllabus

Global Climate Change

GLY 6075 (section 17HD)- Fall 2016

Syllabus

Date	General Topic	Readings
Aug. 22	Introduction and Logistics	
Aug. 24	The Climate System	R-Ch.1 Discussion requests
Aug. 26	The Climate System	R-Ch. 2 (45-53) Hand out proposal info
Aug 29	Earth's Energy Budget (Michelle Penkrot)	R-Ch. 2 (19-32)
Aug 31	No Class- out of town	
Sept 2	No Class- out of town	
Sept 5	LABOR DAY- no class	
Sept 7	Atmosphere and Ocean Circulation	R-Ch. 2 (33-39) Any intro Oceanography text

Sept 9	Ocean Circulation	R-Ch. 2 (40-44) Any intro Oceanography text Visbeck, 2007 Proposal topics due
Sept 12	Ocean Circulation	
Sept 14	Climate models- proposal information	R-Ch.3
Sept 16	***Discussion- Ocean conveyor and climate***	
Sept 19	Carbon Cycle	R-Ch . 4 Berner, 1999; Walker et al., 1981 Proposal outline and refs due
Sept 21	Carbon Cycle	Proxy choices
Sept 23	Long term paleoclimate overview	R-Ch.5 pp. 97-113
Sept 26	Proxies ($d^{18}O$ and $d^{13}C$)- Jason Curtis	R- Appendices 1 and 2
Sept 28	Proxy prep- out of town	
Sept 30	Proxy presentations (temp)	

Oct 3	Proxy presentations (circulation)	
Oct 5	Proxy presentations (PCO2)	
Oct 7	No class- out of town	
Oct 10	**MIDTERM**	
Oct 12	***Discussion- Snowball Earth***	
Oct 14	HOMECOMING no class	
Oct 17	The Greenhouse World- Cretaceous	R- Ch. 6 Proposal introduction due
Oct 19	Cenozoic Climate History	R- Ch.7 Zachos et al., '01
Oct 21	Orbital theory	R- Ch.8 Raymo and Huybers, 2008
Oct 24	Paleogene Climate	Zachos et al., 2008 Proposal introduction returned
Oct 26	Paleogene/Neogene Climate	McInerney et al., 2011
Oct 28	***Discussion- PETM***	

Oct 31	Neogene Climate	R-Ch.5 pp. 114-119 Raymo and Ruddiman, 1992 Proposals due
Nov 2	Neogene Climate	
Nov 4	Pliocene Climate	
Nov 7	***Discussion- Pliocene Warmth***	Proposal reviews due
Nov 9	Orbital Climate (Pleistocene)	R- Ch. 10 and 11
Nov 11	VETERAN'S DAY no class	
Nov 14	Orbital Climate (Pleistocene)	R- Ch. 12 Sigman and Boyle, 2000 Proposals returned
Nov 16	Deglacial/Abrupt Climate Change	R- Ch. 14 (R-Ch. 13 = LGM) WAIS et al. (2015)
Nov 18	***Discussion- Mid Pleistocene Transition***	
Nov 21	Abrupt Climate Change	R- Ch. 15 Response to reviews

R- Ch. 1 = Ruddiman 3nd edition

Course Summary:

Date	Details	
Mon Nov 14, 2016	Reviews (https://ufl.instructure.com/courses/408101/assignments/4374063)	due by 5pm
Fri Nov 25, 2016	Proposal (https://ufl.instructure.com/courses/408101/assignments/4374060)	due by 5pm
Fri Dec 2, 2016	Response to Reviews (https://ufl.instructure.com/courses/408101/assignments/4374062)	due by 5pm
	Discussion Evaluations (https://ufl.instructure.com/courses/408101/assignments/4374055)	
	Final Exam (https://ufl.instructure.com/courses/408101/assignments/4374056)	
	Leading Discussion (https://ufl.instructure.com/courses/408101/assignments/4374057)	
	Midterm (https://ufl.instructure.com/courses/408101/assignments/4374058)	
	Participation (Discussions) (https://ufl.instructure.com/courses/408101/assignments/4374059)	
	Proxy Presentations (https://ufl.instructure.com/courses	

Date	Details
	/408101/assignments/4374061)