GEL 10 — GLOBAL CLIMATE CHANGE: A GEOLOGIC PERSPECTIVE — FALL QTR 2020

DATE	TOPIC TO BE PRESENTED	READING
	KEY TO CLASS STRUCTURE: black text — live lectures DURING the scheduled class time; lectures are recorded and available on the CANVAS page ~ 3 to 4 hours after the lecture. **blue text** – mini lectures are prerecorded & are not live – these are for you to watch on your own time PRIOR to the next 'class discussion & break-out exercise'. red text — these are in-class discussions, break-out rooms & exercises that are graded (more details provided in relevant Module & the lectures). The class discussion & break-out exercise' events will take place (1) during regular class time and (2) from 5:30 to 6:20 pm PDT in order to accommodate those in very different time zones; but others can join as well)	
Sept. 30	Introduction to Remote Course Structure & Class	KKC: Chpt 1
Oct. 2	Modern Climate Change — what have we learned looking back 30 years?	KKC: Chpt 1
Oct. 5	Modern Climate Change (continued)	KKC: Chpt 18
Oct. 7	Modern Climate Change (continued)	
Oct. 9	***Asynchronous:*** Introduction to the Earth System: Interactions & Feedbacks	KKC: Chpt 2 & 3
Oct. 12	***Asynchronous:*** THE EARTH SYSTEM: Earth's Greenhouse & Energy Budget	KKC: Chpt 4
Oct. 14	Class Discussion & Break-out Exercise (10 to 10:50 am & 5:30-6:20 pm PDT)	Graded: 10 points
Oct. 16	***Asynchronous:*** THE EARTH SYSTEM: The Workings of the Atmosphere	KKC: Chpt 5
Oct. 19	***Asynchronous:*** *(continued)*	
Oct. 21	***Asynchronous:*** THE EARTH SYSTEM: Coupling the Ocean & Atmosphere to Make Climate	
Oct. 23	***Asynchronous:*** *(continued)*	
Oct. 26	Class Discussion & Break-out Exercise (10 to 10:50 am & 5:30-6:20 pm PDT)	Graded: 10 points
Oct. 28	***Asynchronous:*** The Carbon Cycle, Climate Change & Ocean Acidification	KKC: Chpt 8; Chpt. 15: p. 303-308
Oct. 30	***Asynchronous:*** The Carbon Cycle (*continued*)	
Nov. 2	Class Discussion & Break-out Exercise (10 to 10:50 am & 5:30-6:20 pm PDT)	Graded: 10 points
	END OF ASYNCHRONOUS LECTURES	
Nov. 4	Climate Change of the Deep Past — Insight into our Future	KKC: Chpt 12 & 13
Nov. 6	Climate Change of the Deep Past (*continued*)	

Nov. 9	The Climate Pacemaker of Ice Ages & Early Humans	KKC: Chpt 6 & 14
Nov. 11	**VETERANS DAY – UNIVERSITY HOLIDAY**	
Nov. 13	The Climate Pacemaker of Ice Ages & Early Humans (*continued*)	
Nov. 16	**IN-CLASS (REMOTE) EXERCISE**: Building Your Carbon Footprint (10 to 10:50 am & 5:30 to 6:20 pm PDT)	Graded: 20 points
Nov. 18	Abrupt Climate Change & the Rise of Human Civilization	KKC: Chpt 15: p. 295-302
Nov. 20	Abrupt Climate Change & the Rise of Human Civilization (*continued*)	
Nov. 23	*Catch-up &/or Discussion*	
Nov. 25	Budgeting Your Carbon Footprint ('Strategizing Your Carbon Budget') — Interactive class: (10 to 10:50 am & 5:30-6:20 pm PDT)	Assoc Exercise is Graded: 10 points
Nov. 27	**THANKSGIVING BREAK – UNIVERSITY HOLIDAY**	
Nov. 30	CLIMATE CHANGE: WHAT'S IN CALIFORNIA'S FUTURE?	KKC: Chpt 15: p. 306-317
Dec. 2	CLIMATE CHANGE: WHAT'S IN CALIFORNIA'S FUTURE? (*continued*)	
Dec. 4	*Catch-up &/or Discussion* (10 to 10:50 am & 5:30 to 6:20 pm PDT)	
Dec. 7	GLOBAL CLIMATE CHANGE: Adaptation & Mitigation Strategies (*continued*)	KKC: Chpt 16
Dec. 9	GLOBAL CLIMATE CHANGE: Adaptation & Mitigation Strategies (*continued*)	
Dec. 11	*Catch-up &/or Discussion* (10 to 10:50 am & 5:30 to 6:20 pm PDT)	
Dec. 15	**FINAL EXAM** (1-3 PM, PDT) - ONLINE & OPEN BOOK SHORT ESSAY	Graded: 40 points