Class	Date	Торіс	Reading	Presentation/ Discussion Leader
1	3/15/21	Welcome/Introductions and personal stories Preview of Course	10 am:	1)Kathleen & Mickey
		Climate Change - Effects of Deforestation and Atmospheric Chemistry	11am: pages 124 - 137 <u>https://</u> feedbackloops climate.com/ introduction/	2) Kathleen
2	3/22/21	The Oceans:	10 am: pages 96-104 & Links from Vicki sent via additional email	1) Vicki Ray
		Guest: A Frozen Ocean in a Warming Climate	11 am: https:// feedbackloops climate.com/ albedo/	Don Perovich PhD_ Professor of Engineering Dartmouth College

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
3	3/29/21	Physics: Energy/ Technology: Battery and Fuel Cells- Part of the Solution	10 am: pages 284-289/346 - 354 How Green Are Electric Vehicles? https:// www.nytimes.c om/ 2021/03/02/ climate/ electric- vehicles- environment.ht ml? referringSourc e=articleShare	1) Robert Willis
		Guest: Fusion Reactors concepts, history, promise, perils Virtual Field Trip MYSTERY: DIII-D Reactor in San Diego or ITER in Southern France with Francesca as our guide. BYOB California or French Wine after party	11 am Star In Bottle NYer Article https:// www.newyorke r.com/ magazine/ 2014/03/03/a- star-in-a-bottle Explanation of Fusion https:// www.youtube.c om/watch? v=mZsaaturR6 E	2) Francesca Turco PhD Columbia University ITER France DIII-D reactor San Diego

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
4	4/5/21	Astronomy: Dark Matter	10 am: focus on pages 22 & 23 in our book	1)Karen Klingon
		James Webb Telescope and a view of the early Universe	11am: https:// www.nytimes.c om/ 2021/02/02/ science/webb- telescope- women- astronomy.htm l? referringSourc e=article	lan Dell'Antonio PhD- Brown

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
5	4/12/21	What is the Internet, and how did we get it ? What is Net Neutrality ? Discussion: How did the advent of the internet effect your life: professionally or personally ?	10 am pages 378-389 https:// www.thestreet. com/ technology/ what-is-net- neutrality-1481 6850	1) Laura Tucker
		Guest: Enabling The Information Age with Chemistry - How We Make Computer Chips	11am: page 292, https:// www.semicond uctors.org/ semiconductor s-101/what-is- a- semiconductor /. And https:// youtu.be/ 	2) Peter Trefonas, PhD DuPont Fellow

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
6	4/19/21	Gene Editing/CRISPR/ Ethical dilemmas	10 am:pages 249-257	1)Roz Ladd
		*Fiction: Audio & Text https:// www.newyorker.com/ magazine/2016/11/07/ are-we-not-men	https:// www.youtube.co m/watch? v=TdBAHexVYzc &t=124s	*Fiction added by Coordinators: Plays right into Roz's
		What ethical limits, if any, should there be to the use of CRSPR technology? To eliminate diseases such as sickle cell? To enhance "normal" abilities e.g. sports? To create embryos without certain inheritable conditions?	https:// news.harvard. edu/gazette/ story/2019/01/ perspectives- on-gene- editing/	discussion ?'s & It's a ROMP
		The Human Genome Project: On the Future of Bioinformatics/ Computational Biology" Many of the links Sorin sent were quite technical; I selected a video on computational chemistry and one of his essays I will email seperately. Also a full link to his bio with further links	11am: guest https:// www.youtube.c om/watch? v=0D5StDpMx as https:// www.brown.ed u/Research/ Istrail Lab/ sorin.php	Sorin Istrail PhD- Brown

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
7	4/26/21	Viruses and The immune system & Vaccines	10am: pages 174-5/246-7 (https:// www.nytimes.c om/ 2021/02/26/	1) Merle & Mickey Immune video: <u>https://</u> www.youtube.c om/watch?
			opinion/ sunday/ coronavirus- alive- dead.html	<u>v=fSEFXI2XQp</u> <u>c</u>
		Guest: Covid and other emerging infectious diseases	11am: guest suggested links	2)Shannon Bennett PhD Virologist Cal Academy of Science
8	5/3/21	Transport Technology	10 am: pages 354-368	1) Mike Webster
		BioTechnology	11 am: pages 302 - 304	2)Richard Mcwhirter
9	5/10/21	Digital Devices	10am: pages 384-398	1) Becky Randolph
		The Evolution of Precision	11 AM see separate attachment	2) Lee Ashcraft

Class	Date	Торіс	Reading	Presentation/ Discussion Leader
10	5/17/21	Geo engineering: Controversial radical steps to save our Planet we need to understand, but hope not to use	10 AM pages 124-127 & see separate attachment	1) Celene Healy & Sue Remington
		Breaking the Mold 1) the Legacy of Henrietta Lacks	11 AM 1) <u>https://</u> <u>www.hopkinsm</u> <u>edicine.org/</u> <u>henriettalacks/</u>	Dagmar Frinta
		2) the young Scientist you never heard about that was key to Covid vaccines		Margo Davis
		Closing thoughts and discussion	11:45 AM	Kathleen & Mickey