MSE 489, Materials Selection for Sustainability, Fall 2022 Prof. John R. Abelson

Date		Торіс
Aug	23 25	Course introduction; Discussion of "Wooden Fences" Ch. 1 in our textbook: Ashby, <u>Materials and the Environment</u> , 3 rd edition
Sept	30 1	Ch. 2 DECC 2050 Calculator (<i>small groups in class</i>)
	6 8	Problem definition for the term project Ch. 9
	13 15	Hybrid and shaped materials Zoom class meeting: Term project groups, Deliverable 1: Goal, Objectives, Constraints
	20 22	CES Software: Guest presentation by Bridget Ogwezi of Ansys Ch. 3
	27 29	Buildings: Heat flow and air exchange ZEROS building energy simulation (<i>small groups in class</i>)
Oct	4 6	Ch. 4 Ch. 5
	11 13	Ch. 6 Zoom class meeting: Term project groups, Deliverable 2: Equations, Data, Tradeoffs
	18 20	Intermittency of renewable power; HOMER simulations Economics and policy
	25 27	Ch. 7 Ch. 8
Nov	1 3	Ch. 10 Ch. 11
	8 10	<i>NO CLASS – Election Day</i> Zoom class meeting: Term project groups, Deliverable 3: Analysis and Recommendations
	15 17	Ch. 12 Ch. 13
		Thanksgiving break
Dec	29 1	Ch. 14 Project presentations day 1
	6 8	Project presentations day 2 Term over Term project due