

Sustainable Energy – Science and Application

Tentative Course Schedule

Class Date		Discussion Readings	Topics
January	13	• Energy Efficiency Chapters 2 and 3	• Radiation • Conduction • Convection
	15	• Energy Efficiency Chapters 2 and 3	
	20	• Energy Efficiency Chapters 2 and 3	• Barriers – vapor and wind
	22	• Energy Efficiency Chapters 2 and 3	
	27	• Heat Pumps Chapter 5	• Air Conditioners and Solar Heaters
	29	• Heat Pumps Chapter 5	
February	3	• Heat Pumps Chapter 5	• Geothermal
	5	• Heat Pumps Chapter 5	
	10	• Energy Generation – Photovoltaics Chapter 6	• Photoelectric effect
	12	• Energy Generation – Photovoltaics Chapter 6	
	17	• Energy Generation – Photovoltaics Chapter 6	• Sizing - Tracking
	19	• Energy Generation – Photovoltaics Chapter 6	
	24	• Energy Generation – Generators Chapters 7 and 8	• Wind
	26	• Energy Generation – Generators Chapters 7 and 8	
	28	• Energy Generation – Generators Chapters 7 and 8	• Hydro
March	3	Mid-Term	
	5	• Energy Generation – Generators Chapters 7 and 8	
	10	• Energy Storage – Batteries Chapters 9, 10 and 11	• DC – AC conversion
	12	• Energy Storage – Batteries Chapters 9, 10 and 11	

	17	Spring Break	– No School
	19	Spring Break	– No School
	24	• Energy Storage – Batteries Chapters 9, 10 and 11	• Invertors
	26	• Energy Storage – Batteries Chapters 9, 10 and 11	
	28	• <i>Field Trip – Daas House</i>	<i>Home Energy Audit and Analysis</i>
	31	•	
April	2		
	7		
	9		
	14	Student Academic Conference	– No School
	16		
	21		
	22		
	28	• Biofuels	• Wood stoves
	30	•	•
May	4	•	•
	6	Study Day	
	7	Final Exam – Thursday at 2:00 pm	A Life Examined. “An unexamined life is not worth living.” - Socrates

The Academic Support Center (ASC) provides tutoring for many classes through the Academic Assistant Program (AAP). Stop by the ASC located in Flora-Frick Hall 154 to complete a tutor request form. Tutors are assigned on a first come first serve basis.