

SPRING 2018 AED ECON 4330: COURSE OUTLINE

DATE	CLASS TOPIC	HOMEWORK ASSIGNMENTS	READING LOGS (RL)
PART I. INTRODUCTION			
Jan 9	T	1. Class overview and introduction: Why care about sustainability?	
Jan 11	Th	2. What is a sustainable economy?	
Jan 16	T	3. Externalities and consumption of natural capital	RL #1 Due
PART II. WEAK SUSTAINABILITY CONCEPTS AND METHODS			
Jan 18	Th	4. Capital stocks, flows and human well-being	
Jan 23	T	5. Wealth accounting and the Inclusive Wealth Index (IWI)	
Jan 25	Th	6. IWI and a test of weak sustainability	RL #2 Due
Jan 30	T	7. Discounting and shadow prices	
Feb 1	Th	8. Technological change, resource scarcity, limits to growth	
Feb 6	T	Review: Weak sustainability concepts and methods	HW#1 Due
Feb 8	Th	Guest speaker: TBA	
Feb 13	T	EXAM I	
Feb 15	Th	9. Methods for valuing the environment	
Feb 20	T	10. Uses of ecosystem service valuation	
Feb 22	Th	11. Benefit cost analysis	RL #3 Due
Feb 27	T	12. Scenario modeling and trade-offs with InVEST	
Mar 1	Th	13. Economics view of value	
Mar 6	T	Review: Benefit cost analysis	HW#2 Due
Mar 8	Th	EXAM II	
Mar 20	T	Group presentation: Benefit cost analysis case study	
Mar 22	Th	Group presentation: Benefit cost analysis case study	
PART III. STRONG SUSTAINABILITY CONSIDERATIONS			
Mar 27	T	14. Ecological economics and strong sustainability rules	
Mar 29	Th	15. Ecological footprint analysis and planetary boundaries	RL #4 Due
Apr 3	T	16. Risk, uncertainty and ignorance	
Apr 5	Th	17. Ecosystem dynamics, regime shifts, resilience and uncertainty	
Apr 10	T	18. Adaptive ecosystem management	HW#3 Due
Apr 12	Th	19. Greenhouse gas emissions accounting	
Apr 17	T	Guest speaker: Lake Erie project	
Apr 19	Th	Course review and synthesis	
Apr 30	M	FINAL 8:00-9:45AM	