

IET3424-851/901 Engineering Economy
Course Schedule Fall 2014 - Professor Gregory Wiles

Module	Class Day	Type	Topic	Chapter Sections	Suggested HW
1	Aug 18 Mon	Live Video 1B	Course Intro, Syllabus, Exam Schedule <i>Before next class . . .</i> Equivalence, Interest rates, Rate of Return	<i>Read . . .</i> 1.1 - 1.9	<i>Work . . .</i> 1.9, 1.11, 1.14, 1.16, 1.19, 1.21, 1.26
2	Aug 25 Mon	<i>Watch . . .</i> Video 2A Video 2B Live	<i>Before class . . .</i> Cash flow diagrams, doubling your money, spreadsheet Algebraic derivations, factor notations, interpolation, arithmetic gradients Work problems in class, Q&A	<i>Read . . .</i> 1.10, 1.11, 1.12 2.1, 2.2, 2.3, 2.4, 2.5	<i>Work . . .</i> 1.29, 1.39, 1.40, 1.43 2.1, 2.4, 2.6, 2.14, 2.21, 2.27, 2.32
	Sept 1 Mon		<i>Labor Day – No Classes</i>		
3	Sept 8 Mon	<i>Watch. . .</i> Video 3A Video 3B Live	<i>Before class . . .</i> Geometric Gradients, unknown interest rates, unknown years Shifted series, single amounts, decreasing/increasing gradients, spreadsheet Work problems in class, Q&A	<i>Read . . .</i> 2.6, 2.7, 2.8, 2.9 3.1, 3.2, 3.3, 3.4, 3.5	<i>Work . . .</i> 2.40, 2.44, 2.49, 2.52, 2.56 3.1, 3.5, 3.13, 3.20, 3.28, 3.45, 3.48
4	Sept 15 Mon	<i>Watch. . .</i> Video Live	Study for exam – see sample test – take online practice test - watch video on sample test Classroom/online Exam 1 (Chapters 1-3)	EXAM 1	
5	Sept 22 Mon	<i>Watch. . .</i> Video 5A Video 5B Live	<i>Before class . . .</i> Nominal, effective interest rates, payment period, compounding period PP>CP, PP<CP, continuous compounding, variable rates Work problems in class, Q&A	<i>Read . . .</i> 4.1, 4.2, 4.3, 4.4, 4.5 4.6, 4.7, 4.8, 4.9	<i>Work . . .</i> 4.4, 4.15, 4.19, 4.22, 4.28, 4.36, 4.40, 4.46
6	Sept 29 Mon	<i>Watch. . .</i> Video 6A Video 6B Live	<i>Before class . . .</i> PW analysis, mutually exclusive alternatives, independent projects PW analysis, different lives, FW analysis, capitalized cost Work problems in class, Q&A	<i>Read . . .</i> 5.1, 5.2 5.3, 5.4, 5.5	<i>Work . . .</i> 5.8, 5.10 5.13, 5.18, 5.22, 5.25
7	Oct 6 Mon	<i>Watch. . .</i> Video 7A Video 7B Live	<i>Before class . . .</i> PW of bonds, life cycles, AW analysis, capital recovery AW analysis, evaluating AW alternatives, perpetual or permanent investments Work problems in class, Q&A	<i>Read . . .</i> 5.8, 6.1, 6.2 6.3, 6.4	<i>Work . . .</i> 5.46, 5.47, 5.49 6.3, 6.4, 6.7, 6.11, 6.16, 6.18
8	Oct 13 Mon	<i>Watch. . .</i> Video Live	Study for exam – see sample test – watch video on sample test Classroom/online Exam 2 (Chapters 4-6)	EXAM 2	

9	Oct 20 Mon	<i>Watch. . .</i> Video 9A Video 9B Live	<i>Before class . . .</i> Rate of Return (ROR), ROR with PW and AW, ROR of bonds ROR, incremental analysis, interpretation, incremental analysis with AW and PW Work problems in class, Q&A	<i>Read . . .</i> 7.1, 7.2, 7.3, 7.6 8.1, 8.2, 8.3, 8.4, 8.5	<i>Work . . .</i> 7.6, 7.8, 7.9, 7.12, 7.36, 7.38 8.5, 8.14, 8.16, 8.18, 8.22
10	Oct 27 Mon	<i>Watch. . .</i> Video 10A Video 10B Live	<i>Before class . . .</i> ROR incremental analysis of revenue/cost, and cost only projects Cost benefit analysis B/C, public sector projects, incremental analysis, mutually exclusive Work problems in class, Q&A	<i>Read . . .</i> 8.6, 8.7 9.1, 9.2, 9.3, 9.4	<i>Work . . .</i> 8.28, 8.30 9.3, 9.6, 9.11, 9.22, 9.27
11	Nov 3 Mon	<i>Watch. . .</i> Video Live	Study for exam – see sample test – watch video on sample test Classroom/online Exam 3 (Chapters 7-9)	EXAM 3	
12	Nov 10 Mon	<i>Watch. . .</i> Video 12A Video 12B Live	<i>Before class . . .</i> Replacement study, economic service life Replacement study, future replacement study, study periods Work problems in class, Q&A	<i>Read . . .</i> 11.1, 11.2 11.3, 11.4, 11.5	<i>Work . . .</i> 11.2, 11.7, 11.9, 11.17, 11.19, 11.32
13	Nov 17 Mon	<i>Watch. . .</i> Video 13A Video 13B Live	<i>Before class . . .</i> Impact of inflation, PW adjusted for inflation FW with inflation, AW with inflation, depreciation methods Work problems in class, Q&A	<i>Read . . .</i> 14.1, 14.2 14.3, 14.4, 16.1, 16.2, 16.3	<i>Work . . .</i> 14.4, 14.9, 14.13, 14.14, 14.20, 14.30, 14.37, 16.11, 16.14, 16.18
14	Nov 24 Mon	<i>Watch. . .</i> Video 14A Video 14B Live	<i>Before class . . .</i> MACRS depreciation method, recovery periods Depletion depreciation method, Income tax terminology, CFAT, CFBT Work problems in class, Q&A	<i>Read . . .</i> 16.4, 16.5 16.6, 17.1, 17.2	<i>Work . . .</i> 16.26, 16.31, 16.35, 17.5, 17.15
15	Dec 1 Mon	<i>Watch. . .</i> Video Live	Study for exam –see sample 4 test video Classroom/online Exam 4 (Chapters 11, 14, 16, 17)	EXAM 4	