## Spring 2015 IET4405-850/900 Operations Research – Concepts, Models, & Methods Course Schedule – Dr. Gregory Wiles

Module	Class Day	Туре	Subject	Reading Assignments	Events/ Problems
	Jan 5 Monday	Live	Course Overview, Syllabus, Schedule	Begin assignments for next week	
1 & 2		Watch Mod1 & Mod2 Videos	Before next class Introduction to Operations Research, Linear Programming, Min/Max and Break Even Analysis	Read Sections 1.1, 1.2, 1.3, 1.4, 1.5 Sections 2.1, 2.2	Work 1.4, 1.9, 1.10, 1.12, 1.15, 2.1, 2.2. (see solutions posted)
	Jan 12 Monday	Live	Work problems in class, Q&A		pos <b>ice</b> )
			MLK Holiday – No Classes		
3 & 4		Watch Mod3 & Mod4 Videos	Before next class Graphical solution, extremes, notations, interpretations, optimal solution and constraints. Begin working with software.	Read Sections 2.3, 2.4, 2.5, 2.6, 2.7	Work 2.9, 2.10, 2.11, 2.13, 2.19, 2.38, 2.40
	Jan 26 Monday	Live	Work problems in class, Q&A		
5		Watch Mod5 Video	Before next class Interpreting LP Solutions, sensitivity analysis, 100% rule, work with software, interpreting computer output, more than one decision variables.	Read Sections 3.1, 3.3, 3.4 (3.2 is omitted)	Work 3.11, 3.12, 3.15
	Feb 2 Monday	Live	Work problems in class, Q&A		
6A & 6B		Watch Mod6A and 6B Videos	Before next class  LP Applications – additional models	Read Sections 4.1, 4.2, 4.3	Work 4.1, 4.4, 4.8, 4.17
	Feb 9 Monday	Live	Work problems in class, Q&A		
	Feb 16 Monday	Online Exam	EXAM 1 today	Review the Sample Exam, HW problems, & book	
8		Watch Mod8 Video	Before next class  Network and Distribution Models –  > Transportation  > Assignment	Read Sections 6.1, 6.2, 6.3	Work 6.1, 6.2, 6.3, 6.9, 6.12, 6.17, 20.1, 20.3
•	Feb 23 Monday	Live	Work problems in class, Q&A		
			March 2 – 6 Spring Break – No Classes		
9		Watch Mod9 Video	Before next class  More Network and Distribution Models  > Transshipment  > Minimal Spanning Tree (chapter 20 on CD or download document from this site)	Read Sections 6.1, 6.2, 6.3	Work 6.1, 6.2, 6.3, 6.9, 6.12, 6.17, 20.1, 20.3

	Mar 9 Monday	Live	Work problems in class, Q&A		
9		Watch Mod9 Video	Before next class  More Network and Distribution Models  > Shortest Route  > Maximal Flow	Read Sections 6.4, 6.5	Work 6.23, 6.25, 6.26, 6.28, 6.29, 6.30, 6.31
	Mar 16 Monday	Live	Work problems in class, Q&A		
9		Watch Mod9 Video	Before next class Practice Network and Distribution Models	Read Sections 6.4, 6.5	Work 6.23, 6.25, 6.26, 6.28, 6.29, 6.30, 6.31
	Mar 23 Monday	Live	Work problems in class, Q&A		
	Mar 30 Monday	Online Exam	Before next class  EXAM 2 today	Review the Sample Exam, HW problems, & book	
10	Apr 6 Monday	Watch Mod10 Video	Before next class Integer LP Concept Graphical and Relaxation Work problems in class, Q&A	Read Sections 7.1, 7.2	Work 7.2, 7.7, 7.9 See Syllabus for how to get Extra Credit (due on last day)
11		Watch Mod11 Video	Before next class Integer LP Applications 0-1 Integer Variables	Read Sections 7.3, 7.4	Work 7.11, 7.14
	Apr 13 Monday	Live	Work problems in class, Q&A		
11		Watch Mod11 Video	Before next class  More Integer LP Applications Review	Read Sections 7.3, 7.4	Work 7.11, 7.14
	Apr 20 Monday	Live	Work problems in class, Q&A		
	Apr 27 Monday	Online Exam	EXAM 3 today	Review the Sample Exam, HW problems, & book	