## The Citadel Department of Civil and Environmental Engineering CIVL 314 – Engineering Economy

## **Summer 2015**

**Text:** Blank, L. T. and Tarquin, A. J., *Engineering Economy*, Seventh Edition, McGraw-Hill, New York, 2012.

## **Course Outline**

Lesson	Date	Topic	Reference
1	May 12	Introduction; Terminology; Time value of money;	Preface,
		Interest calculations; Cash flow equivalents;	Introduction
		Simple and compound interest; Cash flow diagrams	Chap 1
2	May 14	Compound interest; Formulas and tables;	Chap 2
		Interest calculations	
3	May 19	Combining factors	Chap 3
4	May 21	Quiz 1	
		Nominal and effective interest rates	Chap 4
		Review	Chap 1-4
5	May 26	Test 1	Chap 1-4
		Present worth and capitalized cost	Chap 5
6	May 28	Present worth and capitalized cost	Chap 5
		Annual worth analysis	Chap 6
7	June 2	Annual worth analysis	Chap 6
		Rate of return for a single project;	Chap 7
		Multiple rate of return values	
8	June 4	Rate of return for multiple alternatives	Chap 8
9	June 9	Quiz 2	
		Benefit/Cost ratio	Chap 9
		Continuous compounding	Chap 4
		Review	Chap 1-8
10	June 11	Test 2	Chap 1-8
		The engineer's code of ethics	Notes; Chap 1;
			Chap 9
11	June 16	Depreciation	Chap 16
12	Jun 18	Breakeven analysis	Chap 13
			Chap 1-9; 13; 16-17
13	Jun 23	Course Review	
	Jun 25	Final Examination	Chap 1-9; 13; 16-17