Department of Economics University of Toronto 2010/2011 Academic Year

Dr. Yu

Course ECO220Y1Y Quantitative Methods in Economics

Time and Location

Tuesday 6:00 pm to 9:00 pm in LM162

Instructor Dr. V. Yu, Section L5101

Office Room 344, Max Gluskin House, 150 St. George Street

E-mail victoryu@chass.utoronto.ca

Office hours Wednesday 1-3 pm, Friday 11am-1pm

(If possible, please email Dr. Yu on the day before to inform him that

you are coming during the office hours)

Website We will use Blackboard. You need to login to Blackboard using your

UTORid and password.

Textbook Statistics for Management and Economics, 8th Edition, Keller, Duxbury

Press 2008, ISBN 0-324-65337-9. (Note: You can also use the 7th edition

of the book instead of the 8th edition)

Marking	Tests	Date	Time	Weight	Location
Scheme	Test 1	2010/10/19	6-8pm	14.5%	GB412, GB304
	Test 2	2010/11/30	6-8pm	14.5%	SF3201,SF3202
	Test 3	2011/02/11(Friday)	6-8pm	14.5%	EX 100
	Test 4	2011/03/18(Friday)	6-8pm	14.5%	EX 200
	Excel test	Mar/Apr 2011		7%Multin	nedia classroom*
	Final Exar	Final Exam (3 hours)		35%	(Apr 12-29, 2011)
			Total	1000/	-

Total 100%

Tests will vary from section to section. The Final Exam is the same to all sections. In case the University closes (usually due to snowstorm, power failure, etc) on the day of a test, refer to Blackboard for instructions.

Aids Allowed in Tests and Final Exam

Tests – formula sheets (provided to you with the test) and any calculator.

Final Exam – formula sheets (provided to you with the final exam) and calculator.

Computer tutorials and the Excel test

Details will posted in Blackboard by the instructor for Excel training, Christy Chen, christy.chen@utoronto.ca.

^{*} Multimedia classroom (Room 36 in the basement), Department of Sociology, 725 Spadina Avenue, corner of Spadina and Bloor. The computer test is roughly a 30-minute to one-hour test in March/April 2011. Details will be announced in the winter term.

Missing a Test

- The weight of your first missing test will be added to the final exam. That is, if you miss one test, your final exam will be worth 49.5%.
- If you miss more than one test, your 2nd, 3rd and 4th missing test marks will be zero, and your final exam will be worth 49.5%.

Help Sessions/Tutorials

The TA for this course will hold four help sessions/tutorials before each test and the final exam. Times and locations will be posted in Blackboard.

Course Outline (8th Edition of the textbook)

The lectures will always fall behind the course Outline. The idea is to have the students read the textbook before coming to class.

		the textbook before coming	
Year	Date	Chapter and Section	Contents
2010	Sep 14	1.1, 1.3	What is Statistics?
		2.1, 2.2, 2.3, 2.4, 2.5 G	raphical and tabular descriptive
			techniques
	Sep 21	4.1, 4.2, 4.3, 4.4, 4.7, 4.8	3 Numerical descriptive techniques
	Sep 28	5.1, 5.2, 5.3, 5.4	Data collection and sampling
	Oct 05	6.1, 6.2, 6.3	Probability
	Oct 12	7.1, 7.2, 7.4	Random variables and discrete
			probability distributions
	Oct 19	Test 1 (2 hours) 6-8	pm in GB412, GB304
	Oct 26	8.1, 8.2, 8.4	Continuous probability distribution
			(skip the Chi-Squared distribution)
	Nov 02	(chapter 8 continued)
	Nov 09	No class (Fall Break)	
	Nov 16	9.1, 9.2, 9.3, 9.4	Sampling Distributions
	Nov 23	10.1, 10.2, 10.3	Introduction to Estimation
	Nov 30	Test 2 (2 hours) 6-8 pm	in SF3201,SF3202
	Dec 07	11.1, 11.2, 11.3, 11.4 In	troduction to Hypothesis Testing
2011	Jan 11	12.1, 12.3	Inference about a Population
	Jan 18	(chapter 12 continue	d) (skip Wilson estimators)
	Jan 25	13.1, 13.2, 13.5	Inference about comparing Two
	Feb 01	(chapter 13 continue	d) Populations
	Feb 08	(chapter 13 continue	d)
	Feb 11 (I	Friday) Test 3 (2 hours) 6	-8 pm in EX 100.
	Feb 15	16.1, 16.2, 16.3, 16.4 St	atistical inference: review of
			Chapters 12 and 13
	Feb 22	Reading week, no class	
	Mar 01	16.5, 16.6	Simple Linear Regression and
			Correlation
	Mar 08	(chapter 16 continue	d)
	Mar 15	(chapter 16 continued)	
	Mar 18 (1	Friday) Test 4 (2 hours) 6	-8 pm in EX 200.
	Mar 2217	7.1, 17.2	Multiple Regression
	Mar 29	(chapter 17 continue	d)
		` 1	,

Apr 06 18.1, 18.2, 18.6 Model Building Apr 12-Apr 29 Final Exam (3 hours)

Recommended exercises from the 8th edition of the textbook

18

18.2, 18.4, 18.6

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r Exercises
1.1– 1.7
2.3, 2.4, 2.6, 2.11, 2.14, 2.15, 2.21, 2.31, 2.33, 2.35, 2.56, 2.59, 2.62
4.1, 4.3, 4.6, 4.8, 4.10, 4.20, 4.22 - 4.30, 4.37, 4.38, 4.40, 4.42, 4.46,
4.55, 4.56, 4.57, 4.59
5.1 - 5.10, 5.13, 5.17 - 5.19
6.5, 6.8, 6.9, 6.10, 6.14, 6.15, 6.17, 6.18, 6.20, 6.21, 6.22, 6.27,
6.32, 6.36, 6.38, 6.41, 6.44, 6.45, 6.48, 6.50, 6.52, 6.53, 6.56, 6.64,
6.66, 6.68, 6.75, 6.77, 6.78, 6.80, 6.87, 6.89, 6.94, 6.95
7.1, 7.2, 7.5 - 7.8, 7.14 - 7.17, 7.18 - 7.21, 7.26, 7.34,
7.37 - 7.42, 7.43 - 7.46, 7.49, 7.50, 7.52, 7.54, 7.56, 7.81, 7.82,
7.85, 7.87, 7.90 - 7.96, 7.99, 7.103, 7.108, 7.109, 7.110, 7.112,
7.115, 7.116, 7.118, 7.123, 7.125, 7.128, 7.132, 7.140
8.1 - 8.5, 8.9 - 8.14, 8.16, 8,18, 8.20, 8.22, 8.24, 8.26, 8.28, 8.30,
8.32, 8.34, 8.36, 8.38, 8.40, 8.42, 8.44, 8.46, 8.48, 8.50, 8.52, 8.54,
8.56, 8.58, 8.60, 8.62, 8.64
9.5 - 9.12, 9.15 - 9.16, 9.19, 9.21 - 9.24, 9.28, 9.30, 9.31, 9.32,
9.34, 9.36 – 9.39, 9.42, 9.45 – 9.51, 9.53
10.1 - 10.8, 10.10, 10.12, 10.14, 10.16, 10.17 - 10.20, 10.22, 10.26,
10.29, 10.41 - 10.44, 10.48 - 10.50, 10.56
11.48, 11.50, 11.52, 11.62, 11.64
12.2, 12.4, 12.6, 12.8, 12.14, 12.16, 12.22, 12.24,
12.42, 12.44, 12.54, 12.56, 12.58, 12.60, 12.62, 12.66, 12.68, 12.70
13.2, 13.4, 13.6, 13.8, 13.10, 13.32, 13.34, 13.40, 13.42,
13.57, 13.58, 13.62, 13.70, 13.72, 13.74, 13.82, 13.84
16.2, 16.4, 16.6, 16.8, 16.10, 16.12, 16.26, 16.28, 16.30, 16.32,
16.62, 16.64, 16.66, 16.68
17.2, 17.4, 17.6

Course Outline (7th Edition of the textbook)

The lectures will always fall behind the course Outline. The idea is to have the students read the textbook before coming to class.

Year	Date	Chapter and Section	Contents	
2010	Sep 14		hat is Statistics?	
	-	2.1, 2.2, 2.3, 2.4, 2.5 Graph	ical and tabular descriptive	
			techniques	
	Sep 21	4.1, 4.2, 4.3, 4.4, 4.6, 4.7 Nu	umerical descriptive techniques	
	Sep 28	5.1, 5.2, 5.3, 5.4 Da	ata collection and sampling	
	Oct 05		obability	
	Oct 12	7.1, 7.2, 7.4 Ra	andom variables and discrete	
			probability distributions	
	Oct 19	Test 1 (2 hours) 6-8 pm i	in GB412, GB304	
	Oct 26	8.1, 8.2, 8.4 Co	ontinuous probability distributions	
		(sl	kip the Chi-Squared distribution)	
	Nov 02	(chapter 8 continued)		
	Nov 09	No class (Fall Break)		
	Nov 16	9.1, 9.2, 9.3, 9.4 Sa	ampling Distributions	
	Nov 23	10.1, 10.2, 10.3 In	troduction to Estimation	
	Nov 30	Test 2 (2 hours) 6-8 pm i	in SF3201,SF3202	
	Dec 07	11.1, 11.2, 11.3, 11.4 Introd	uction to Hypothesis Testing	
2011	Jan 11	12.1, 12.3 In:	ference about a Population	
	Jan 18	(chapter 12 continued)	(skip Wilson estimators)	
	Jan 25	13.1, 13.2, 13.5 In:	ference about comparing Two	
	Feb 01	(chapter 13 continued)	Populations	
	Feb 08	(chapter 13 continued)		
	Feb 11 (Friday) Test 3 (2 hours) 6-8 pm in EX100			
	Feb 15	17.1, 17.2, 17.3, 17.4 Simpl	<u> </u>	
			orrelation	
	Feb 22	Reading week, no class		
	Mar 01		mple Linear Regression and	
	Mar 08	(chapter 17 continued)	Correlation	
	Mar 15	(chapter 17 continued)		
		Friday) Test 4 (2 hours) 6-8 p		
	Mar 2218		ultiple Regression	
	Mar 29	(chapter 18 continued)		
	Apr 06	19.1, 19.2, 19.6	Model Building	
	Apr 12-A	pr 29 Final Exam (3 hours))	

Recommended exercises from the 7th edition of the textbook

Chapter	Exercises
1	1.1– 1.7
2	2.3, 2.4, 2.6, 2.11, 2.14, 2.15, 2.21, 2.31, 2.33, 2.35, 2.56, 2.59, 2.62
4	4.1, 4.3, 4.6, 4.8, 4.10, 4.20, 4.22 - 4.30, 4.37, 4.38, 4.40, 4.42, 4.46,
	4.55, 4.56, 4.57, 4.59
5	5.1 - 5.10, 5.13, 5.17 - 5.19

- 6 6.5, 6.8, 6.9, 6.10, 6.14, 6.15, 6.17, 6.18, 6.20, 6.21, 6.22, 6.27, 6.32, 6.36, 6.38, 6.41, 6.44, 6.45, 6.48, 6.50, 6.52, 6.53, 6.56, 6.64, 6.66, 6.68, 6.75, 6.77, 6.78, 6.80, 6.87, 6.89, 6.94, 6.95
- $7.1, 7.2, 7.5 7.8, 7.14 7.17, 7.18 7.21, 7.26, 7.34, \\7.37 7.42, 7.43 7.46, 7.49, 7.50, 7.52, 7.54, 7.56, 7.81, 7.82, \\7.85, 7.87, 7.90 7.96, 7.99, 7.103, 7.108, 7.109, 7.110, 7.112, \\7.115, 7.116, 7.118, 7.123, 7.125, 7.128, 7.132, 7.140$
- 8 8.1 8.5, 8.9 8.14, 8.16, 8,18, 8.20, 8.22, 8.24, 8.26, 8.28, 8.30, 8.32, 8.34, 8.36, 8.38, 8.40, 8.42, 8.44, 8.46, 8.48, 8.50, 8.52, 8.54, 8.56, 8.58, 8.60, 8.62, 8.64
- 9 9.5 9.12, 9.15 9.16, 9.19, 9.21 9.24, 9.28, 9.30, 9.31, 9.32, 9.34, 9.36 9.39, 9.42, 9.45 9.51, 9.53
- 11. 11.8, 11.10, 11.12, 11.14, 11.16, 11.18, 11.20, 11.28, 11.30 11.48, 11.50, 11.52, 11.62, 11.64
- 12 12.2, 12.4, 12.6, 12.8, 12.14, 12.16, 12.22, 12.24, 12.42, 12.44, 12.54, 12.56, 12.58, 12.60, 12.62, 12.66, 12.68, 12.70
- 13 13.2, 13.4, 13.6, 13.8, 13.10, 13.32, 13.34, 13.40, 13.42, 13.57, 13.58, 13.62, 13.70, 13.72, 13.74, 13.82, 13.84
- 17 17.2, 17.4, 17.6, 17.8, 17.10, 17.12, 17.26, 17.28, 17.30, 17.32, 17.62, 17.64, 17.66, 17.68
- 18 18.2, 18.4, 18.6
- 19 19.2, 19.4, 19.6