Department of Economics
University of Toronto
2016 Fall

Course **ECO220Y1Y Quantitative Methods in Economics–L5101**

Time and Location

- **Monday and Tuesday 6–9PM in MP202**
  See the section "Course Schedule" below on the details of the class times. Dr. Yu will do the lectures, and the TA will do the tutorials.

Instructor **Victor Yu**
E-mail **victor.yu@utoronto.ca**
(Please mention that you are a student in ECO220 in your email. Otherwise your email may be replied at a later time. Avoid attachments in your email.)

Office hours Monday 3–5 PM by appointments only
Tuesday 2–4 PM by appointments only

Dr. Yu does not have an office at the St. George campus. If possible, please communicate with Dr. Yu using email. If you have to talk to Dr. Yu in person, please email him to book an appointment either on Monday 3–5 or Tuesday 2–4. Dr. Yu will book a room, usually in the Department of Economics at 150 St. George, for the appointment.

Website Blackboard

Textbook Sharpe, DeVeaux, Velleman, Wright: Business Statistics, Third Custom Canadian Edition for ECO220, Pearson 2013

Marking Scheme

	Date	Duration	Weight	Location
Test 1	2016–10–31 (Mon)	2 hours	15%	to be announced
Test 2	2016–12–07 (Wed)	2 hours	15%	to be announced
Test 3	2017–02–06 (Mon)	2 hours	17%	to be announced
Test 4	2017–03–13 (Mon)	2 hours	18%	to be announced
Excel Test (ECM*)			10%	
Final Exam			25%	

*The Excel Course Module (ECM) is taught by Prof. Chen (christy.chen@utoronto.ca).

Aids Allowed in Test and Final Exam.

- Formula sheet (posted in Blackboard and provided to you in the exams)
- A non-programmable calculator.

Course Schedule

Week	Date		Chapter
1	**2016–09–12 (Mon)**	**Lecture 1**	1–4 Statistics, Data, Population, Sample
	2016–09–13 (Tue)	no class	
2	**2016–09–19 (Mon)**	**Lecture 2**	5 Quantitative data
	2016–09–20 (Tue)	no class	

3	**2016–09–26 (Mon)**	**Lecture 3**	5	Quantitative data (continued)
	2016–09–27 (Tue)	Tutorial 1		
4	**2016–10–03 (Mon)**	**Lecture 4**	6	Scatterplots, Association, Correlation
	2016–10–04 (Tue)	Tutorial 2		
5	2016–10–10 (Mon)	Thanksgiving Day, no class		
	2016–10–11 (Tue)	**Lecture 5**	6	Correlation (continued)
6	**2016–10–17 (Mon)**	**Lecture 6**	7	Linear Regression
	2016–10–18 (Tue)	Tutorial 3		
7	**2016–10–24 (Mon)**	**Lecture 7**	7	Linear Regression (continued)
	2016–10–25 (Tue)	Tutorial 4		
8	**2016–10–31 (Mon)**	**Test 1 (6–8PM, Location to be announced)**		
	2016–11–01 (Tue)	**Lecture 8**	8	Randomness and Probability
	2016–11–07 (Mon)	Fall break, no class		
	2016–11–08 (Tue)	Fall break, no class		
9	**2016–11–14 (Mon)**	**Lecture 9**	9	Random Variables, Probability Distribution
	2016–11–15 (Tue)	**Lecture 10**	9	Random Variables (continued)
10	**2016–11–21 (Mon)**	**Lecture 11**	10	Sampling Distributions
	2016–11–22 (Tue)	Tutorial 6		
11	**2016–11–28 (Mon)**	**Lecture 12**	11	Confidence Intervals for Proportions
	2016–11-29 (Tue)	**Lecture 13**	11	Confidence Intervals for Proportions
12	2016–12–05 (Mon)	Tutorial 7		
	2016–12–06 (Tue)	Tutorial 8		
	2016–12–07 (Wed)	**Test 2 (6–8PM, Location to be announced)**		

---------- winter break ----------

13	**2017–01–09 (Mon)**	**Lecture 14**	12.1–12.10 Testing Hypotheses on proportions
	2017–01–10 (Tue)	Tutorial 9	
14	**2017–01–16 (Mon)**	**Lecture 15**	12.1–12.10 (continued)
	2017–01–17 (Tue)	Tutorial 10	
15	**2017–01–23 (Mon)**	**Lecture 16**	13.1–13.4 Confidence Intervals and Hypothesis Tests for Means
	2017–01–24 (Tue)	Tutorial 11	
16	**2017–01–30 (Mon)**	**Lecture 17**	13.5–13.7 (continued)
	2017–01–31 (Tue)	Tutorial 12	
17	**2017–02–06 (Mon)**	**Test 3 (6–8PM, Location to be announced)**	
	2017–02–07 (Tue)	**Lecture 18**	14.1–14.4 Comparing Two Means
18	**2017–02–13 (Mon)**	**Lecture 19**	(continued)
	2017–02–14 (Tue)	Tutorial 13	
	2017–02–20 (Mon)	Family day, no class	
	2017–02–21 (Tue)	Reading week, no class	
19	**2017–02–27 (Mon)**	**Lecture 20**	18.1–18.5 Inference for Regression
	2017–02–28 (Tue)	Tutorial 14	
20	**2017–03–06 (Mon)**	**Lecture 21**	(continued)
	2017–03–07(Tue)	Tutorial 15	
21	**2017–03–13 (Mon)**	**Test 4 (6–8PM, Location to be announced)**	
	2017–03–14 (Tue)	**Lecture 22**	19.1–19.8 Understanding Regression Residuals

22	**2017–03–20 (Mon)**	**Lecture 23**	20.1–20.4	Multiple Regression
	2017–03–21 (Tue)	Tutorial 16		
23	**2017–03–27 (Mon)**	**Lecture 24**		(continued)
	2017–03–28 (Tue)	Tutorial 17		
24	**2017–04–03 (Mon)**	**Lecture 25**	21.1–21.6	Building Multiple Regression Models
	2017–04–04 (Tue)	Tutorial 18		
	2017–04–12 to 2017–04–29 Final exam period			

Exercises from textbook

Work out at least 10 odd-numbered exercises from each chapter in the textbook. The more questions you work on, the better you will understand the material.

Missing a Test

- If you miss only one test, you must submit a **medical doctor's note** or a **letter** to Dr. Yu explaining the reason for missing the test. Your mark on the missing test is assumed equal to your final exam mark. There is no make-up test. If you miss a test with no valid reason, your test mark is zero.
- If you miss more than one test, the mark on the first missing test is assumed equal to your final exam mark. The mark(s) of other missing tests are equal to 0.

Statistics Tables

We use the following statistics tables in this course:

- Standard Normal Table
- Student's *t*–table
- *F*–table

These tables are posted in Blackboard and they will be attached to your tests and the final exam. ***These statistics tables look different than the statistics tables in the textbook. Make sure that you know how to read the statistics tables posted in Blackboard.***