Department of Economics
University of Toronto
2017 Fall

Course **ECO220Y1Y Quantitative Methods in Economics–L0101**

Time and Location

- **Monday 11:00–13:00 in KP108**
- **Tuesday 18:00–21:00 in KP108**

See the section "Course Schedule" below on the details of the class times. Dr. Yu will teach the lectures, and the TA will teach 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 2–4 PM in GE164*
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 2–4 or Tuesday 2–4. Dr. Yu will book a room in the Department of Economics at 150 St. George, for the appointment. Most likely the room is GE164.

Teaching Assistant **Marc-Antoine Chatelain**
E-mail **marc.chatelain@mail.utoronto.ca**

Website Blackboard

Textbook Sharpe, DeVeaux, Velleman, Wright: Business Statistics, Third Custom Canadian Edition for ECO220, Pearson 2017

Marking Scheme

Date	Time	Weight	Location
Test 1 2017–10–10 (Tue)	6–8pm	15%	
Test 2 2017–11–14 (Tue)	6–8pm	15%	
Test 3 2018–01–16 (Tue)	6–8pm	16%	HA401, HA410
Test 4 2018–02–27 (Tue)	6–8pm	17%	BA2185, BA2195
Test 5 2018–04–03 (Tue)	6–8pm	(optional)*	EX320
DACM (five online tests)**		12%	Oct 2, Nov 13, Jan 15, Feb 26, Apr. 2
Final Exam		25%	

* Test 5 is an optional test. It covers all the material in this course. If you miss one term test, the missing test score is assumed equal to test 5. If you miss more than one test, the first missing test score is assumed equal to test 5 and the other missing tests scores are zero. If you have written all 5 tests and if the lowest score of tests 1–4 is less than test 5, then this lowest score is replaced by test 5; otherwise test 5 score is discarded. It is to your advantage to write test 5.

** The Data Analysis Course Module (DACM) complements our course and is required for all sections of ECO220Y1Y. It runs from September through April. You will dive into lots of real data and research and replicate key findings. There are five modules (A through E) and five online tests. The DACM Handbook (on the DACM portal site) guides you through this required year-long module.

Course Schedule

Week	Date		Chapter
1	2017–09–11 (Mon)	**Lecture 1**	1–4 Statistics, Data, Population, Sample
	2017–09–12 (Tue)	DACM tutorial (6–7pm)	
		Lecture 2	(7–8:30pm)
2	2017–09–18 (Mon)	**Lecture 3**	5 Quantitative data
	2017–09–19 (Tue)	DACM tutorial (6–7pm)	
		Lecture 4	(7–8:30pm)
3	2017–09–25 (Mon)	**Lecture 5**	6 Scatterplots, Association, Correlation
	2017–09–26 (Tue)	Course tutorial (6–8pm)	
	Online TEST in DACM (Module A) due Oct 2		
4	2017–10–02 (Mon)	**Lecture 6**	6 Scatterplots, Association, Correlation
	2017–10–03 (Tue)	DACM tutorial (6–7pm)	
		Course tutorial (7–8:30pm)	
5	2017–10–09 (Mon)	Thanksgiving Day, no class	
	2017–10–10 (Tue)	**Test 1 (6–8pm)**	
6	2017–10–16 (Mon)	**Lecture 7**	7 Linear Regression
	2017–10–17 (Tue)	DACM tutorial (6–7pm)	
		Lecture 8	(7–8:30pm)
7	2017–10–23 (Mon)	**Lecture 9**	7 Linear Regression (continued)
	2017–10–24 (Tue)	DACM tutorial (6–7pm)	
		Lecture 10	(7–8:30pm)
8	2017–10–30 (Mon)	**Lecture 11**	8 Randomness and Probability
	2017–10–31 (Tue)	Course tutorial (6–7pm)	
	Online TEST in DACM (Module B) due Nov 13		
	2017–11–06 (Mon)	Reading Week, no class	
	2017–11–07 (Tue)	Reading Week, no class	
9	2017–11–13 (Mon)	**Lecture 12**	9 Random Variables, Probability Distribution
	2017–11–14 (Tue)	**Test 2 (6–8pm)**	
		(Location to be announced)	

10	2017–11–20 (Mon)	**Lecture 13**	10 Sampling Distributions
	2017–11–21 (Tue)	Course tutorial (6–8pm)	
11	2017–11–27 (Mon)	**Lecture 14**	11 Confidence Intervals for Proportions
	2017–11–28 (Tue)	DACM tutorial (6–7pm)	
		Course tutorial (7–8:30pm)	
12	2017–12–04 (Mon)	**Lecture 15**	11 Confidence Intervals for Proportions
	2017–12–05 (Tue)	DACM tutorial (6–7pm)	
		Course tutorial (7–8:30pm)	

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13	2018–01–08 (Mon)	**Lecture 16**	12.1–12.10 Testing Hypotheses on proportions
	2018–01–09 (Tue)	**Lecture 17**	12.1–12.10 (continued)
14	2018–01–15 (Mon)	Course tutorial(11am–1pm)	
	2018–01–16 (Tue)	**Test 3 (6–8pm)**	**HA401, HA410 (Haultain Building)**
15	2018–01–22 (Mon)	**Lecture 18**	13.1–13.4 Confidence Intervals and Hypothesis Tests for the Means
	2018–01–23 (Tue)	**Lecture 19**	13.5–13.7 (continued)
16	2018–01–29 (Mon)	**Lecture 20**	14.1–14.4 Comparing Two Means
	2018–01–30 (Tue)	DACM tutorial (6–7pm)	
		Lecture 21 (7–8:30pm)	
17	2018–02–05 (Mon)	**Lecture 22**	14.1–14.4 Comparing Two Means (continued)
	2018–02–06 (Tue)	Course tutorial (6–8pm)	
18	2018–02–12 (Mon)	**Lecture 23**	18.1–18.5 Inference for Regression
	2018–02–13 (Tue)	**Lecture 24**	19.1–19.8 Understanding Regression Residuals
	2018–02–19 (Mon)	Family day, no class	
	2018–02–20 (Tue)	Reading week, no class	
19	2018–02–26 (Mon)	Course tutorial(11am–1pm)	
	2018–02–27 (Tue)	**Test 4 (6–8pm)**	**BA2185, BA2195 (Bahen Centre Inf)**
20	2018–03–05 (Mon)	**Lecture 25**	19.1–19.8 Understanding Regression Residuals
	2018–03–06 (Tue)	**Lecture 26**	DACM tutorial (6–7pm)
		Lecture 25 (7–8:30pm)	
21	2018–03–12 (Mon)	**Lecture 27**	20.1–20.4 Multiple Regression
	2018–03–13 (Tue)	DACM tutorial (6–7pm)	
		Course tutorial (7–8:30pm)	
22	2018–03–19 (Mon)	**Lecture 28**	20.1–20.4 Multiple Regression (continued)
	2018–03–20 (Tue)	**Lecture 29**	20.1–20.4 Multiple Regression (continued)
23	2018–03–26 (Mon)	**Lecture 30**	21.1–21.6 Building Multiple Regression Models
	2018–03–27 (Tue)	**Lecture 31**	(continued)
24	2018–04–02 (Mon)	**Lecture 32**	Summary
	2018–04–03 (Tue)	**Test 5 (6–8pm)**	**EX320, Exam Centre**
	2018–04–09 to 2018–04–30 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.

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.***