Department of Economics
University of Toronto
Sept 2018–Apr 2019

Course **ECO220Y1Y Quantitative Methods in Economics–L0101 & L0501**

Time and Location

L0101 **Monday** **14:00–16:00 in EM 001 (Lectures)**
Tuesday **16:00–18:00 in MP 102 (DACM/tutorials)**
L0501 **Monday** **11:00–13:00 in OI 2212 (Lectures)**
Tuesday **16:00–18:00 in OI 2212 or MP 102 (DACM/tutorials)**

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. Try to avoid attachments in your email.)
Office hours Tuesday 14:00–16:00 in GE164* 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 on Tuesday 14:00–16:00. Dr. Yu will book a room in the Department of Economics at 150 St. George, for the appointment. Most likely the room is GE164.

Website Quercus

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

Marking Scheme

	Date	Time	Weight	Location
Test 1	2018–10–09 (Tue)	4–6pm	14%	EX100
Test 2	2018–11–13 (Tue)	4–6pm	16%	EX100
Test 3	2019–01–15 (Tue)	4–6pm	16%	EX100
Test 4	2019–03–05 (Tue)	4–6pm	17%	EX100
Test 5	2019–04–02 (Tue)	4–6pm	(optional)*	EX100
DACM**			12%	
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	2018–09–10 (Mon)	**Lecture 1**	**1–4**	**Statistics, Data, Population, Sample**
	2018–09–11 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
2	2018–09–17 (Mon)	**Lecture 2**	**5**	**Quantitative data**
	2018–09–18 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
3	2018–09–24 (Mon)	**Lecture 3**	**5**	**Quantitative data**
	2018–09–25 (Tue)	**Lecture 4**	**6**	**Scatterplots, Association, Correlation**
			7	**Linear Regression**
			L0101	No class 4-5pm, lecture 4 at 5-6pm in MP102
			L0501	lecture 4 at 4-5pm in MP102; No class 5-6pm
	Online TEST in DACM (Module A) due September 26			
4	2018–10–01 (Mon)	**Lecture 5**	**7**	**Linear Regression (continued)**
	2018–10–02 (Tue)	Course tutorial	L0101	4-6pm in MP102
			L0501	4-6pm in OI2212
5	2018–10–08 (Mon)	Thanksgiving Day, no class		
	2018–10–09 (Tue)	**Test 1 (4–6 pm in EX100 for both sections)**		
6	2018–10–15 (Mon)	**Lecture 6**	**8**	**Randomness and Probability**
	2018–10–16 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
7	2018–10–22 (Mon)	**Lecture 7**	**8**	**Randomness and Probability (continued)**
	2018–10–23 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
8	2018–10–29 (Mon)	**Lecture 8**	**9**	**Random Variables, Probability Distribution**
	2018–10–30 (Tue)	**Lecture 9**	**9**	**Random Variables, Probability Distribution (continued)**
	Online TEST in DACM (Module B) due Oct 31			
	2018–11–05 (Mon)	Reading Week, no class		
	2018–11–06 (Tue)	Reading Week, no class		
9	2018–11–12 (Mon)	**Lecture 10**	**10**	**Sampling Distributions**
	2018–11–13 (Tue)	**Test 2 (4-6 pm in EX100 for both sections)**		
10	2018–11–19 (Mon)	**Lecture 11**	**10**	**Sampling Distributions (continued)**
	2018–11–20 (Tue)	**Lecture 12**	**10**	**Sampling Distributions (continued**
11	2018–11–26 (Mon)	**Lecture 13**	**11**	**Confidence Intervals for Proportions**
	2018–11–27 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
12	2018–12–03 (Mon)	**Lecture 14**	**11**	**Confidence Intervals for Proportions (continued)**
	2018–12–04 (Tue)	**Lecture 15**	**12**	**Hypothesis Testing**

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

Week	Date	Chapter

13	2019–01–07 (Mon)	**Lecture 14**	12.1–12.10 Testing Hypotheses on proportions	
	2019–01–08 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
14	2019–01–14 (Mon)	**Lecture 15**	12.1–12.10 (continued)	
	2019–01–15 (Tue)	**Test 3 (4-6 pm in EX100 for both sections)**		
	(Details on the coverage of Test 3 is posted in a document "Information for Test 3")			
15	2019–01–21 (Mon)	**Lecture 16**	13.1–13.4 Confidence Intervals and Hypothesis Tests for the Means	
	2019-01-22 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
16	2019–01–28 (Mon)	**Lecture 17**	13.5–13.7 (continued)	
	2019–01–29 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
	Online TEST in DACM (Module C) due 6 pm, Wed Jan 30			
17	2019–02–04 (Mon)	**Lecture 18**	14.1–14.4 Comparing Two Means – (continued)	
	2019–02–05 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
18	2019–02–11 (Mon)	**Lecture 20**	18.1–18.5 Inference for Regression	
	2019–02–12 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
	2019–02–18 (Mon)	Family day, no class		
	2019–02–19 (Tue)	Reading week, no class		
19	2019–02–25 (Mon)	**Lecture 22**	18.1–18.5 Inference for Regression	
	2019–02–26 (Tue)	**Lecture 23**	19.1–19.8 Understanding Regression Residuals	
			20.1–20.4 Multiple Regression	
			L0101	No class 4-5pm, lecture at 5-6pm in MP102
			L0501	lecture at 4-5pm in MP102; No class 5-6pm
	Online TEST in DACM (Module D) due 6 pm, Wed Feb 27			
20	2019–03–04 (Mon)	**Lecture 24**	20.1–20.4 Multiple Regression (continued)	
	2019–03–05 (Tue)	**Test 4 (4–6 pm in EX100 for both sections)**		
	(Details on the coverage of Test 4 is posted in a document "Information for Test 4")			
21	2019–03–11 (Mon)	**Lecture 25**	20.1–20.4 Multiple Regression	
	2019–03–12 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
22	2019–03–18 (Mon)	**Lecture 26**	20.1–20.4 Multiple Regression (continued)	
	2019–03–19 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
23	2019–03–25 (Mon)	**Lecture 27**	21.1–21.6 Building Multiple Regression Models	
	2019–03–26 (Tue)	DACM tutorial	L0101	No class 4-5pm; DACM 5-6pm in MP102
			L0501	DACM 4-5pm in MP102; No class 5-6pm
24	2019–04–01 (Mon)	**Lecture 28**	21.1–21.6 Building Multiple Regression Models	
	2019–04–02 (Tue)	**Test 5* (4–6 pm in EX100 for both sections)**		
		*** Optional. See Page 1 for details.**		
	(Details on the coverage of Test 5 is posted in a document "Information for Test 5")			
	Online TEST in DACM (Module E) due 6 pm, Wed Apr 3.			
	2019–04–06 to 2019–04–30 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 Quercus.***