Department of Economics
University of Toronto
Summer 2019

Course   **ECO220Y1Y Quantitative Methods in Economics–L0101 and L0201**

Time and Location
- **L0101**   **Lectures on Tuesday and Wednesday 11:00–13:00 in OI2212**
                DACM* on Friday in OI2212 (see page 10 of DACM handbook)
- **L0201**   **Lectures on Tuesday and Wednesday 14:00–16:00 in OI2212**
                DACM* on Friday in OI2212 (see page 10 of DACM handbook)
  Dr. Yu teaches the lectures, the TAs teach DACM.

*The Data Analysis Course Module (DACM) complements our course and is required for all sections of ECO220Y1Y. It runs from May through August. 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 (available in Bookstore and on the DACM portal site) guides you through this required module. See **Course Schedule** below for the dates.

Instructor   **Victor Yu**
E-mail   victor.yu@utoronto.ca
(Please mention that you are a student in ECO220 in your email. Otherwise you will get my reply in only one sentence "what course are you taking?")
Office hours   **Tuesday and Wednesday after classes (13:00-14:00, 16:00-17:00) in OI2212. If you can, email Dr. Yu ahead of time that you are coming to the office hours.**
                Other times please contact Dr. Yu by email.
Website   **Quercus**
Textbook   Sharpe, DeVeaux, Velleman, Wright: Business Statistics, Third Custom Canadian Edition for ECO220, Pearson 2017

	Date	Time	Weight	Location
Marking				
Scheme	Test 1 May 24 (Fri)	11:00–13:00	15%	MY150 (Myhal Centre MCEIE)
	Test 2 June 19–26		20%	to be updated
	Test 3 July 19 (Fri)	11:00–13:00	25%	EX100 (Exam Centre)
	DACM tests	5 tests	10%	online
	Final Exam		30%	to be updated

- If you know ahead of time that you cannot write a test at the above specified time, email Dr. Yu before the test and state your reason.
- If you miss one test, the test score is assumed equal to your final exam score.
- If you miss more than one test, the first missing test score is assumed equal to your final exam score, and the other missing test scores are assumed equal to zero.
- If you miss the final exam, you need to file a petition to the Faculty of Arts and Science (FAS) to write a deferred final exam. FAS (not the instructor) makes the decision to approve or disapprove the petition.

Course Schedule

[Note: TA aid centres are to answer questions regarding course material and DACM]

Week	2019	Lecture	Chapter
1	**May 07 (Tue)**	**Lecture 1**	**1–4 Statistics, Data, Population, Sample**
	May 08 (Wed)	**Lecture 2**	**1–4 (continued)**
	May 09 (Thu)		No lecture
	May 10 (Fri)		DACM tutorial (see DACM calendar for times)
2	**May 14 (Tue)**	**Lecture 3**	**5 Quantitative data**
	May 15 (Wed)	**Lecture 4**	**6 Scatterplots, Association, Correlation**
	May 16 (Thu)		No lecture
	May 17 (Fri)		DACM tutorial (see DACM calendar for times)
			TA aid centres in GE110, 2:30–3:30pm
3	**May 21 (Tue)**	**Lecture 5**	**7 Linear Regression**
			TA aid centres in GE110, 10–11am and 1–2pm
	May 22 (Wed)	**Lecture 6**	**7 (continued)**
	May 23 (Thu)		TA aid centres in OI2212, 11–1 and 2–4pm
			No lecture
	May 24 (Fri) Test 1, 11am–1pm in MY150		
4	**May 28 (Tue)**	**Lecture 7**	**8 Randomness and Probability**
	May 29 (Wed)	**Lecture 8**	**9 Random Variables, Probability Distribution**
	May 30 (Thu)		No lecture
	May 31 (Fri)		DACM tutorial (see DACM calendar for times)
5	**June 04 (Tue)**	**Lecture 9**	**9 (continued)**
	June 05 (Wed)	**Lecture 10**	**9 (continued)**
	June 06 (Thu)		No lecture
	June 07 (Fri)		DACM tutorial (see DACM calendar for times)
			TA aid centres in GE110, 3:30–4:30pm
6	**June 11 (Tue)**	**Lecture 11**	**10 Sampling Distributions**
			TA aid centres in GE110, 10–11am and 1–2pm
	June 12 (Wed)	**Lecture 12**	**10 (continued)**
	June 13 (Thu)		TA aid centres in OI2212, 11–1pm and 2–4pm
	June 14 (Fri)		DACM tutorial (see DACM calendar for times)
7	**June 19–26 Test 2** (date to be confirmed by Faculty of Arts and Science)		
8	**July 02 (Tue)**	**Lecture 14**	**11 Confidence Intervals for Proportions**
	July 03 (Wed)	**Lecture 15**	**12.1–12.10 Testing Hypotheses on proportions**
	July 04 (Thu)		No lecture
	July 05 (Fri)		DACM tutorial (see DACM calendar for times
9	**July 09 (Tue)**	**Lecture 16**	**12.1–12.10 (continued)**
	July 10 (Wed)	**Lecture 17**	**13.1–13.4 Confidence Intervals and Hypothesis Tests for the Means**
	July 11 (Thu)		No lecture
	July 12 (Fri)		DACM tutorial (see DACM calendar for times)
			TA aid centres in GE110, 2:30–3:30pm

Course Schedule (continued)

Week	2019	Lecture	Chapter
10	**July 16 (Tue)**	**Lecture 18**	**13.5–13.7 (continued)**
			TA aid centres in GE110, 11–1 and 2–4pm
	July 17 (Wed)	**Lecture 19**	**14.1–14.4 Comparing Two Means**
	July 18 (Thu)		TA aid centres in OI2212, 11–1pm and 2–4pm
			No lecture
	July 19 (Fri) Test 3, 11am–1pm in EX100		
11	**July 23 (Tue)**	**Lecture 20**	**18.1–18.5 Inference for Regression**
	July 24 (Wed)	**Lecture 21**	**19.1–19.8 Understanding Regression Residuals**
	July 25 (Thu)		DACM tutorial (see DACM calendar for times)
	July 26 (Fri)		DACM tutorial (see DACM calendar for times)
			TA aid centres in GE110, 2:30–3:30pm
12	**July 30 (Tue)**	**Lecture 22**	**20.1–20.4 Multiple Regression**
			TA aid centres in GE110, 10–11am and 1–2pm
	July 31 (Wed)	**Lecture 23**	**20.1–20.4 (continued)**
	Aug 01 (Thu)		No lecture
	Aug 02 (Fri)		DACM tutorial (see DACM calendar for times)
13	**Aug 06 (Tue)**	**Lecture 24**	**20.1–20.4 (continued)**
	Aug 07 (Wed)	**Lecture 25**	**21.1–21.6 Building Multiple Regression Models**
	Aug 08 (Thu)		No lecture
	Aug 09 (Fri)		DACM tutorial (see DACM calendar for times)
			TA aid centres in GE110, 2:30–3:30pm
14	Aug 13 (Tue)		TA aid centres in GE110, 1–3pm
	Final Exam	**(to be assigned by the Faculty of Arts and Science)**	

Exercises from textbook

Work out at least 10 exercises from each chapter in the textbook. The solutions to all exercises in the textbook are posted in Quercus. 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 Quercus 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.*