

Course ECO227Y **Quantitative Methods in Economics**

Lecturer Dr. Victor Yu

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- **Office Hours**
Wednesday 12:30 – 13:00
Friday 11:30 – 14:00*
* By appointment only. Please email Dr. Yu on or before midnight Thursday to book an appointment.

Webpage Blackboard

Textbook An Introduction to Mathematical Statistics and its Applications, 5th edition or 4th edition. R.J. Larsen and M.L. Marx, Prentice Hall 2012.

Preparation First year calculus required.

Marking Scheme	Weight	Time/Date*	Location
Test 1	16%	2 – 4 pm Wednesday Oct 19, 2011	
Test 2	16%	2 – 4 pm Wednesday Nov 30, 2011	
Test 3	16%	2 – 4 pm Wednesday Feb 8, 2012	
Test 4	16%	2 – 4 pm Wednesday Mar 21, 2012	
<u>Final exam</u>	<u>36%</u>	<u>Exam Period, April 11-30, 2012</u>	

* Tentative dates, pending on room reservations. To be updated.

Aids for tests and final exam

- Test: One aid sheet (2 pages, 8.5"x11" paper) and any calculator.
- Final Exam: Two aid sheets (4 pages, 8.5"x11" paper) and any calculator.

Course Outline	Wednesday
Chapter 1. Introduction	2011-09-14
Chapter 2. Probability	2011-09-21 2011-09-28
Chapter 3. Random Variables	2011-10-05 2011-10-12 2011-10-19 (Test 1, tentative date) 2011-10-26
Chapter 4. Special Distributions	2011-11-02
Chapter 5. Estimation	2011-11-09 2011-11-16

	2011-11-23
	2011-11-30 (Test 2, tentative date)
Chapter 6. Hypotheses Testing	2012-01-11
	2012-01-18
Chapter 7. Normal Distribution	2012-01-25
	2012-02-01
	2012-02-08 (Test 3, tentative date)
Chapter 9. Two Sample Problems	2012-02-15
	2012-02-22 (study break, no class)
	2012-02-29
Chapter 11. Regression	2012-03-07
	2012-03-14
	2012-03-21 (Test 4, tentative date)
	2012-03-28
	2012-04-04

Recommended exercises from the Textbook (5th or 4th edition). You should do at least 5 exercises from section. For example, do five (or more) exercises from section 2.2, 2.3 and so on. The more exercises you practice, the more you will understand the material.

Chapter 2 Probability

2.2.3, 2.2.9, 2.2.11, 2.2.17, 2.2.19, 2.2.21, 2.2.23, 2.2.25, 2.2.27, 2.2.29, 2.2.33

2.3.1, 2.3.3, 2.3.5, 2.3.7, 2.3.9, 2.3.11, 2.3.13

2.4.1, 2.4.3, 2.4.7, 2.4.9, 2.4.11, 2.4.13, 2.4.15, 2.4.17, 2.4.25, 2.4.27, 2.4.29

2.4.41, 2.4.43, 2.4.45, 2.4.47, 2.4.49

2.5.1, 2.5.3, 2.5.5, 2.5.7, 2.5.15, 2.5.17, 2.5.19, 2.5.23,

2.7.1, 2.7.3, 2.7.5, 2.7.7

Chapter 3 Random Variables

3.2.1, 3.2.5, 3.2.7, 3.2.9, 3.2.11, 3.2.21, 3.2.23, 3.2.25

3.3.1, 3.3.3, 3.3.5, 3.3.7, 3.3.11, 3.3.15

3.4.1, 3.4.3, 3.4.5, 3.4.7, 3.4.9, 3.4.11, 3.4.13

3.5.1, 3.5.3, 3.5.5, 3.5.7, 3.5.9, 3.5.11, 3.5.15, 3.5.19, 3.5.21, 3.5.23

3.5.27, 3.5.29, 3.5.31, 3.5.33

3.6.1, 3.6.3, 3.6.5, 3.6.7, 3.6.9, 3.6.11, 3.6.15, 3.6.21, 3.6.23

3.7.1, 3.7.3, 3.7.5, 3.7.7, 3.7.9, 3.7.11, 3.7.13, 3.7.15, 3.7.17, 3.7.19, 3.7.21, 3.7.23,

3.7.31, 3.7.33, 3.7.35, 3.7.37, 3.7.39, 3.7.43, 3.7.45, 3.7.51

3.8.1, 3.8.3, 3.8.5, 3.8.7, 3.8.9

3.9.1, 3.9.3, 3.9.5, 3.9.7, 3.9.13, 3.9.15, 3.9.17,

3.11.1, 3.11.3, 3.11.5, 3.11.7, 3.11.9, 3.11.11, 3.11.13, 3.11.15, 3.11.17

3.12.1, 3.12.3, 3.12.5, 3.12.7, 3.12.9, 3.12.11, 3.12.13, 3.12.15

3.12.17, 3.12.19, 3.12.21, 3.12.23

Chapter 4 Special Distributions

4.2.1, 4.2.3, 4.2.5, 4.2.17, 4.2.19, 4.2.21, 4.2.23
4.3.1, 4.3.3, 4.3.5, 4.3.7, 4.3.9, 4.3.11, 4.3.13, 4.3.15, 4.3.17, 4.3.19
4.3.21, 4.3.23, 4.3.25, 4.3.27, 4.3.29, 4.3.33, 4.3.35

Chapter 5 Estimation

5.2.1, 5.2.3, 5.2.5, 5.2.7, 5.2.11
5.3.3, 5.3.5, 5.3.9, 5.3.13, 5.3.17, 5.3.23, 5.3.25
5.4.1, 5.4.7, 5.4.9, 5.4.11, 5.4.17
5.5.1, 5.5.3

Chapter 6 Hypothesis Testing

6.2.1, 6.2.3, 6.2.5, 6.2.7, 6.2.9, 6.2.11
6.3.1, 6.3.3, 6.3.5, 6.3.7, 6.3.9
6.4.1, 6.4.3, 6.4.5, 6.4.7, 6.4.9, 6.4.11, 6.4.13, 6.4.15, 6.4.17, 6.4.19, 6.4.21

Chapter 7 The Normal Distribution

7.4.1, 7.4.3, 7.4.5, 7.4.7, 7.4.11, 7.4.13, 7.4.15
7.4.17, 7.4.19, 7.4.21
7.5.1, 7.5.3

Chapter 9 Two Sample Problems

9.2.3, 9.2.5, 9.2.7, 9.2.9, 9.2.11, 9.2.15
9.3.1, 9.3.3, 9.3.5
9.4.1, 9.4.3, 9.4.5, 9.4.7
9.5.1, 9.5.3, 9.5.7,

Chapter 11 Regression

11.2.1, 11.2.3, 11.2.7, 11.2.9, 11.2.11
11.3.1, 11.3.3, 11.3.9
11.4.15, 11.4.17

Missing a Test

- If you miss a test, you must submit a **medical doctor's note** or a **letter** to Dr. Yu explaining the reason for missing the test. There is no make up test.
- If you miss only one test, the weight is transferred to the final exam. Therefore if you miss one test, your final exam is worth 52%
- If you miss more than one test, the 2nd, 3rd and 4th missing tests will get zero marks, final exam= 52%.
- In case there is an upward adjustment to the course marks, only students who have completed all term tests and the final exam will be adjusted. Students who miss one or more tests will not get any upward adjustment in the course marks. For example, if there is an upward adjustment of 5 marks to the final exam, only the students who have completed all term tests and the final exam will be adjusted. Students who miss one or more tests will NOT get this adjustment.