

Last Revised: September 2005

COURSE INFORMATION

Course Title: Introduction to Economic Data Analysis			Course Number	: ECON 240	Credits: 3
Total Weeks:	14 (Fall, Spring) 12 (Summer)	Total Hours: 39	Course Level:	 First Year New Replacement 	⊠ Second Year □ Revised Course It Course
Department:	Economics	Department Head: S. Plater	Former Course Code(s) and Number(s) (if applicable): N/A		
Pre-requisites	s (If there are no pre	requisites, type NONE): ECON 101	and ECON 102		

Co-requisite Statement (List if applicable or type NONE): NONE

Precluded Courses: N/A

COURSE DESCRIPTION

In this course students will apply economics theories to real-world problems using theory, data, and statistical techniques. No prior knowledge of statistics analysis is expected.

LEARNING OUTCOMES

Upon successful completion of the course, students will be able to:

- Understand why theory is needed to understand real--world observations (i.e., data.)
- Apply economic theories to the real-world problems by using statistical tools.
- Using economic theory to determine appropriate data selection.
- Understand the nature of data both in distributions and the quality expected.

INSTRUCTION AND GRADING

Instructional (Contact) Hours:

Туре		Duration
Lecture		39
Seminars/Tutorials		
Laboratory		
Field Experience		
Other (specify):		
	Total	39

Grading System: Letter Grades ⊠ Percentage □ Pass/Fail □

Satisfactory/Unsatisfactory

Other 🗆

Specify passing grade: 50%

Evaluation Activities and Weighting (total must equal 100%)



COURSE OUTLINE

Assignments: Specify number of, varie and nature of assignme		Lab Work:	%	Participation: Specify nature of participation:	%	Project: 30% Specify nature of project:
Quizzes/Test:	%	Midterm Exam: 30%		Final Exam: 30%		Other: % Specify:

TEXT(S) AND RESOURCE MATERIALS

Provide a full reference for each text and/or resource material and include whether required/not required.

Required:

On Reserve: Depending on the term's theme, background readings will be posted on reserve in the library or online.
 Various URL's will be provided at the beginning of term. Students are expected to bookmark these and refer to them on an ongoing basis. While most of these will be data bank (or similar) sites, some will be opinion sites which students will be expected to critique.

Recommended:

Bennet, Jeffrey O., Briggs, William L., and Tiola, Mario F. Statistical Reasoning for Everyday Life. Pearson Publishing, Toronto (2003). COURSE TOPICS

List topics and sequence covered.

Week	Торіс
Week 1	Introduction
Week 2	What are statistics: Uncertainty and random variables and the uses of statistics
Week 3	Measurement: Data types, error types, and index numbers
Week 4	Displaying data: tables, charts, plots, etc., and scaling, grouping, and lying
Week 5	Describing data: measures of central tendency and shapes of distributions
Week 6	Time series data: trends and smoothing techniques
Week 7	MIDTERM EXAM
Week 8	Probability: statistical significance
Week 9	Correlation: random variables and cross-tabulations
Week 10	Causation: random variables and cross-tabulations
Week 11	Samples: means and variances estimation
Week 12	Populations: means and variances estimation
Week 13	Hypothesis testing: differences in means, proportions and conditioning, and confidence intervals
Wook 14	

Week 14 FINAL EXAM



NOTES

- 1. Students are required to follow all College policies. Policies are available on the website at: Coquitlam College Policies
- 2. To find out how this course transfers, visit the BC Transfer Guide at: <u>bctransferguide.ca</u>