



Last Revised: January 2021

COURSE	INFORMATION							
Course T	itle: Quantitative Method	ds (II)			Course Number:	STAT 291	Credits: 4	
Total We	eeks: 14 (Fall, Spring) 12 (Summer)	Total Hours	:: 39		Course Level:	☐ First Year ☐ New ☐ Replacement	☑ Second Year☐ Revised Courset Course	
Departm	ent: Mathematics	Departmen	t Head: G. Belchev	Forn	ner Course Code(s)	and Number(s)	(if applicable): N/A	
Pre-requisites (If there are no prerequisites, type NONE): MATH 111 with MATH 112 recommended								
Co-requisite Statement (List if applicable or type NONE): NONE								
Precluded Courses: N/A								
COURSE	DESCRIPTION							
This course covers basic statistical concepts and methods used in business and commerce. Topics include types of data, graphical displays, probability, statistical inference, confidence intervals, hypothesis testing and linear regression techniques.								
LEARNING OUTCOMES								
 Upon successful completion of the course, students will be able to: Understand the methods to collect, analyze and interpret data. Understand Central Limit Theorem and Law of Large Numbers. Do interval estimation and interpret the outcomes. Do hypothesis testing and interpret the outcomes. 								
INSTRU	CTION 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%								
Fyaluation Activities and Weighting (total must equal 100%)								





Assignments: Specify number of, variand nature of assignment	-	Lab Work: %	Participation: % Specify nature of participation:	Project: % Specify nature of project:
Quizzes/Test:	25%	Midterm Exam: 30%	Final Exam: 45%	Other: %

TEXT(S) AND RESOURCE MATERIALS

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

Introduction to the Practice of Statistics (9th edition), Moore, McCabe, and CRAIG. Freeman.

COURSE TOPICS

List topics and sequence covered.

Topic
Looking at Data – Distribution
Looking at Data – Distribution and Looking at Data – Relationship
Looking at Data – Relationship and Analysis of Two-Way Table
Producing Data (Sampling)
Producing Data (Experimental Designs)
Probability: The Study of Randomness
Sampling Distributions MIDTERM
Introduction to Inference (Interval Estimation)
Introduction to Inference (Hypothesis Testing)
Inference for Distributions
Inference for Proportions
Analysis of Two-way Table and Inference for Regression
Decision Analysis, and Simulation (if time permits)
FINAL EXAM

COURSE OUTLINE



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: bctransferguide.ca