

## **Business Statistics for Accounting (Postgraduate)**

### **IOM-ISS121**

#### ***Course Description***

This course will introduce you to business statistics, or the application of statistics in the workplace. Statistics is how we gather, analyze, and interpret data. If you have taken a statistics course in the past, you may find some of the topics in this course familiar. Accountants need to be able to read and perform analysis using business data in order to help the companies to make the right decisions.

#### ***Required Texts***

*Business Statistics: Communicating with Numbers 3rd Edition* by Sanjiv Jaggia and Alison Kelly

*Other Reading materials will be provided through your student center*

#### ***Prerequisite***

Postgraduate status needed. Students are assumed to have knowledge that is required for this course.

#### ***Course Requirements***

During the term, there will be one midterm exam (20%), one final exam (30%) and two quizzes (20%), and homework assignments (20%). Class participations will be 10% of your total grade.

#### ***Learning Outcomes***

- Plot and analyze functions to model business decision problems.
- Describe data with graphical, tabular, and quantitative summaries.
- Use probability models for business applications and analyze environments with uncertainty.
- Estimate and infer some characteristics of a population by analyzing a sample.
- Think critically about quantitative information.

## *Evaluation and Grading*

A	93-100	B-	80-82	D+	67-69
A-	90-92	C+	77-79	D	63-66
B+	87-89	C	73-76	D-	60-62
B	83-86	C-	70-72	F	0-59

## *Course Hours*

The course has 20 class sessions in total. Each class session is 150 minutes in length, for a total of 3000 minutes of in-class time. Students are expected to spend 15-20 hours per week outside of class. The University awards **4** credits for this course. Different universities may count course credits differently. Consult officials at your own home institution.

## *Attendance*

Occasionally, due to illness or other unavoidable circumstance, a student may need to miss a class. The University's policy requires a medical certificate to be excused. Any absence may impact on the student's grade. Moreover, **the University's policy is that a student who has more than 3 absences will fail the course. Arriving late or leaving early will count as a partial absence.**

## *Academic Honesty*

The University expects all students to do their own work. Instructors will fail assignments that show evidence of plagiarism or other forms of cheating and will also report the student's name to the University administration. A student reported to the University for cheating is placed on disciplinary probation; a student reported twice is suspended or expelled.

## *Disability Accommodation*

Any student who needs special accommodation due to the impact of disability should inform the University within 10 days before the program starts.

## *Class Schedule*

Period	Weekly Contents	Readings
1	• Introduction to the Course	
2	• Statistics and Data	• CH 1
3	• Tabular and Graphical Methods	• CH 2
4	• Numerical Descriptive Measures	• CH 3
5	• Introduction to Probability	• CH 4
6	• Discrete Probability Distributions	• CH 5
7	• Continuous Probability Distributions	• CH 6
8	• Sampling and Sampling Distributions	• CH 7
9	• Interval Estimation	• CH 8
10	• Review	• CH 1-8
	Midterm Exam	
11	• Hypothesis Testing	• CH 9
12	• Statistical Inference Concerning Two Populations	• CH 10
13	• Statistical Inference Concerning Variance	• CH 11
14	• Chi-Square Tests	• CH 12
15	• Analysis of Variance	• CH 13
16	• Regression Analysis	• CH 14
17	• Simple linear regression models	• CH 15
18	• Multiple linear regression models	• CH 15
19	• Regression Models for Nonlinear Relationships	• CH 16
20	• Review	• CH 1-16
	Final Exam	