

## **Summer I 2013**

### **Course Information**

Course title: Introductory Business Statistics  
Course Number: DSCI 207-M01  
Course description: Use and interpretation of data to improve decision-making in a world of uncertainty. Focus on the use of descriptive statistics for displaying and summarizing data; the use of probabilities, random variables and probability distributions for making decisions; and the use of correlation and regression analysis to develop prediction models applicable across disciplines  
Prerequisite(s): MATH-120 (or equivalent), ITM 200 (formerly MIS 200) highly recommended  
Credits: 3  
Meeting Times: Mn Tu Wd Th 10:00-11:50

### **Instructor Information**

Name: Alba M. Franco Pereira  
Email: alba.franco@uvigo.es  
Office hours: Tu 12:00-13:15, Th 12:00-13:15 and by appointment

### **Learning Objectives**

- Students shall be able to interpret bar and line graphs accurately
- Students shall be able to calculate and understand the difference between the mean and median
- Students shall be able to understand and apply the Independence Rule of Probability
- Students shall be able to understand and interpret discrete probability distributions
- Students shall be able to understand and calculate normal probabilities
- Students shall be able to interpret and calculate a confidence interval for the mean
- Students shall be able to identify the null and alternative hypotheses
- Students shall be able to interpret a Type I and Type II error in the context of a problem
- Students shall be able to understand and interpret the meaning of a p-value
- Students shall be able to interpret and apply a least squares regression equation

### **Text books**

*Statistics for Business and Economics*, Newbold, Carlson & Thorne. Prentice Hall, International Edition, 6<sup>th</sup> edition, 2007

### **Policies**

#### **Grading system:**

Two midterms and a final exam will be given. They will emphasize the material presented in class but will also cover the reading assignments. It is necessary to pass this course to do, at least, 50% of the homework. Late homework will not be accepted

Additional Information

- 25% homework & class participation
- 25% midterm exams (2)
- 25% final exam

**Attendance:**

Although not mandatory, attendance and participation are a very important part of the learning process; I strongly urge you to attend all classes. On the other hand, you will be responsible for any announcements, information, problems or course changes that are made in all lectures

**Academic Integrity:**

I expect that every student registered in this course will follow the university Code of Student Academic Responsibility. Examples of academic dishonesty would be copying from another student, copying from a book or class notes during a closed-book exam, submitting materials authored by or editorially revised by another person but presented as the student's own work, copying a passage or text directly from a published source without appropriately citing or recognizing that source, taking a test or doing an assignment or other academic work for another student, tampering with another student's work, securing or supplying in advance a copy of an examination without the knowledge or consent of the instructor, and colluding with another student or students to engage in an act of academic dishonesty

Where there is clear indication of such dishonesty a faculty member or administrator has the responsibility to apply appropriate sanctions. Recommendations of sanctions to be imposed will be made to the Academic Dean. Possible sanctions for a violation of academic integrity include, but are not limited to, disciplinary probation, suspension, and dismissal from the University.

For more information concerning academic dishonesty, refer to the Academic Conduct Policy at [http://spain.slu.edu/academics/academic\\_policies\\_&\\_procedures/index.html#Academic%20Conduct](http://spain.slu.edu/academics/academic_policies_&_procedures/index.html#Academic%20Conduct)

**Students with Disabilities:**

Any student who qualifies for special accommodations, due to presence of a disability, and feels it necessary to utilize them in order to meet the requirements of this course as outlined in the syllabus, should contact Counseling/Disability Services. Please phone the office at 91 554-5858 (Ext. 230), or send an e-mail to [disabilityservices-madrid@slu.edu](mailto:disabilityservices-madrid@slu.edu). Students may also stop by the Counseling/Disabilities Services Office. Confidentiality will be observed in all inquiries

**Important Dates:**

May 20 <sup>st</sup> :	First day of classes
May 22 <sup>th</sup> :	Last day to ADD/DROP classes
May 28 <sup>th</sup> :	Last day to choose audit (AU) or pass/no pass (P/NP) options
May 30 <sup>st</sup> :	First Midterm Exam. 10:00
June 10 <sup>st</sup> :	Last day to drop a class and receive a "W"
June 13 <sup>th</sup> :	Second Midterm Exam. 10:00
June 20 <sup>st</sup> :	Final day of classes
June 21 <sup>nd</sup> :	Final Exam 08:30-11:30

**COURSE OUTLINE**

1. Introduction. Descriptive Statistics. Linear Regression
2. Probability
3. Discrete Random Variables
4. Continuous Random Variables
5. Sampling and Sampling Distributions
6. Confidence Intervals
7. Hypothesis Testing

## **Accommodation Statement**

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In recognition that people learn in a variety of ways and that learning is influenced by multiple factors (e.g., prior experience, study skills, learning disability), resources to support student success are available on campus. Students who think they might benefit from these resources can find out more about:

1. Course-level support (e.g., faculty member, departmental resources, etc.) by asking your course instructor.
2. University-level support (e.g., tutoring/writing services, Disability Services) by visiting the Academic Dean's Office (San Ignacio Hall) or by going to [http://spain.slu.edu/academics/learning\\_resources.html](http://spain.slu.edu/academics/learning_resources.html).
3. Students who believe that, due to a disability, they could benefit from academic accommodations are encouraged to contact Disability Services at +34 915 54 58 58, ext. 204, send an e-mail to [counselingcenter-madrid@slu.edu](mailto:counselingcenter-madrid@slu.edu), or to visit the Counseling Office (San Ignacio Hall). Confidentiality will be observed in all inquiries. Course instructors support student accommodation requests when an approved letter from Disability Services has been received and when students discuss these accommodations with the instructor after receipt of the approved letter.

## **Academic Honesty and Plagiarism**

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The University is a community of learning, whose effectiveness requires an environment of mutual trust and integrity, such as would be expected at a Jesuit, Catholic institution. As members of this community, students, faculty, and staff members share the responsibility to maintain this environment. Academic dishonesty violates it. Although not all forms of academic dishonesty can be listed here, it can be said in general that soliciting, receiving, or providing any unauthorized assistance in the completion of any work submitted toward academic credit is dishonest. It not only violates the mutual trust necessary between faculty and students but also undermines the validity of the University's evaluation of students and takes unfair advantage of fellow students. Further, it is the responsibility of any student who observes such dishonest conduct to call it to the attention of a faculty member or administrator.

Examples of academic dishonesty would be copying from another student, copying from a book or class notes during a closed-book exam, submitting materials authored by or editorially revised by another person but presented as the student's own work, copying a passage or text directly from a published source without appropriately citing or recognizing that source, taking a test or doing an assignment or other academic work for another student, tampering with another student's work, securing or supplying in advance a copy of an examination without the knowledge or consent of the instructor, and colluding with another student or students to engage in an act of academic dishonesty. Where there is clear indication of such dishonesty, a faculty member or administrator has the responsibility to apply appropriate sanctions. Investigations of violations will be conducted in accord with standards and procedures of the school or college through which the course or research is offered. Recommendations of sanctions to be imposed will be made to the dean of the school or college in which the student is enrolled. Possible sanctions for a violation of academic integrity include, but are not limited to, disciplinary probation, suspension, and dismissal from the University. The complete SLU Academic Honesty Policy can be found at the following link: [http://spain.slu.edu/academics/academic\\_advising/docs/Academic\\_integrity.pdf](http://spain.slu.edu/academics/academic_advising/docs/Academic_integrity.pdf)