# Ec151.04 Statistics <br> MNF 11 <br> Campion 302 <br> Spring 1999 <br> Boston College 

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Office Hours: Mondays 1:05-1:55 p.m., Wednesdays and Fridays 10:00-10:50 a.m. and by appointment

TEXT: Triola, Mario F. and LeRoy A. Franklin: Business Statistics, Addison-Wesley, latest edition.

## Introduction

This course is an introduction to probability theory and statistics for economics and management students. Its objectives are to acquaint the students with : a) statistical inference and the basic concepts used in probability theory and statistics, b) statistical problem solving, and c) the basics of computerized data analysis.

The work in the course consists of lectures, homework problems (based on problems in the text) and some computer assignments. Testing takes the form of three examinations (two during the term and one final examination), 5-7 preannounced quizzes on the homework problems, and at least one graded computer assignment. Because of the quizzes, the homework problems do not have to be handed in and are not graded (although you are welcome to see me about them during the office hours). Correct answers to assigned problems will be made available. The computer assignments will be discussed in a later handout. These assignments are to be handed in.

Statistics is an inherently cumulative discipline: concepts studied early in the course are still needed in the final sections. This means that you should not plan to leave the work
until the night before the exam! Doing the homework problems regularly is a good way to make sure that you keep up with the material.

## Examination Schecule and Grading Policy

Your course grade depends on two in-term examinations, the final examination, the computer assignments and the quizzes. The interm examinations are each worth $25 \%$, the final exam $30 \%$, and the computer assignments $10 \%$. The remaining $10 \%$ is the total weight of the quizzes.

The dates of the quizzes will be preannounced at least one week in advance. The in-term examination dates are likely to fall on or near the following dates:
First in-term exam: 2/24/1999
Second in-term exam: 4/7/1999
The due dates of the computer assignments will be given at a later date. The final examination will be held on the date scheduled by the Registrar. Let me know as soon as possible if the midterm dates clash with your general schedules.

Make-up examinations for in-term examinations may be given a) in the case of a temporarily incapacitating illness (a note from a health care practitioner is needed), b) if the examination is missed because of an absence for religious reasons as described in the Undergraduate Catalog, provided that I am informed about this prior to the scheduled examination date. Make-ups may also be arranged for reasons of 'severe life-events'. A letter of support from the relevant dean is required.

All students in this course are expected to follow Boston College's code of academic integrity. In particular, collaboration is not allowed in the examinations, quizzes or graded computer assignments, and all students must be the true authors of any work they submit.


## IV. Statistical Inference



## ASSIGNED PROBLEMS:

You should work on the assigned problems during the same week as the related material is discussed in class. As an example, we plan to discuss Chapter 4 during 2/15-2/22. Thus, you should work on the problems for Ch. 4 from the following list during that same week. In general, try to do the problems in the order they are listed below. Short answers are given in the back of the textbook. See me during my office hours for longer explanations.

| Chapter | Section | Problem Numbers |
| :---: | :---: | :---: |
| ${ }^{-1}$ | $1.3^{1.2}$ | $\begin{aligned} & 1,3,5,11,13,15,21 \\ & 1,5,11,13,15,17 \end{aligned}$ |
| - 2 | $\begin{aligned} & 2.2 \\ & 2.3 \\ & 2.5 \\ & 2.6 \\ & 2.7 \\ & 2.8 \end{aligned}$ | $\begin{aligned} & 1,5,9,13,17,25,27 \\ & 3,7,11,13 \\ & 1,7,13,17 \\ & 1,9,11,17,19,21 \\ & 3,11,37 \\ & 17 \end{aligned}$ |
| - 3 | $\begin{aligned} & 3.2 \\ & 3.3 \\ & 3.4 \\ & 3.6 \end{aligned}$ | $\begin{aligned} & 1,3,7,19,25 \\ & 1,5,21,23 \\ & 1,3,11,21,23 \\ & 1,3,5,7,9,15,21,27, \end{aligned}$ |

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| -4 |  |  |
| :---: | :--- | :--- |
|  | 4.2 | $1,9,11,19$ |
| 4.3 | $1,11,13,15,17$ |  |
| 4.4 | $1,3,5,9,15,23$ |  |
| 4.5 | $1,3,7,19,27$ |  |


| - ${ }_{5}$ | $\begin{aligned} & 5.2 \\ & 5.3 \\ & 5.4 \\ & 5.5 . \\ & 5.6 \\ & 5.7 \end{aligned}$ | $\begin{aligned} & 1,5,7,11,15,23,35, \\ & 37,43,45,51 \\ & 9,17,25 \\ & 11,15 \\ & 1,3,5,7,9,11,17,27 \\ & 11,23 \\ & 1,5,15,19 \end{aligned}$ |
| :---: | :---: | :---: |
| - ${ }_{6}$ | $\begin{aligned} & 6.2 \\ & 6.3 \\ & 6.4 \end{aligned}$ | $\begin{aligned} & 1,3,5,9,13,17,19, \\ & 23,27 \\ & 1,3,5,7,13,27 \\ & 1,3,5,11,19 \end{aligned}$ |
| - 7 | $\begin{aligned} & 7.2 \\ & 7.3 \\ & 7.4 \\ & 7.5 \\ & 7.6 \end{aligned}$ | $\begin{aligned} & 1,3,5,7,9,13,25,31 \\ & 1,3,5,23,27 \\ & 1,3,13,21 \\ & 1,5,13,17 \\ & 1,5,13,19 \end{aligned}$ |
| - 9 | $\begin{aligned} & 9.2 \\ & 9.3 \\ & 9.4 \end{aligned}$ | $\begin{aligned} & 3,7,9,17,19 \\ & 1,5,9,11,21,23 \\ & 1,3,11,13,19 \end{aligned}$ |
| - 12 | $\begin{aligned} & 12.2 \\ & 12.3 \\ & 12.4 \\ & 12.5 \\ & 12.6 \end{aligned}$ |  |

