

BA 240: STATISTICAL ANALYSIS
Spring 2012

INSTRUCTOR: DAN YAMASAKI
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CLASS LOCATION: C 208
CLASS HOURS: TTh 5:30-7:40 PM
ITEM: 5516
SECTION: D

COURSE OVERVIEW AND OBJECTIVES

The goal of this course is to provide a practical and applied view of the use of statistics. Understanding technical, contextual, and research applications are the aspects to be covered in this course. This course will also involve the use of Microsoft Excel software to solve statistical problems. This is a rigorous course, designed and applicable for transfer to 4-year universities.

Topics covered will include:

mean, median, mode
standard deviation, standard error, variance
probability
binomial distribution
normal distribution, central limit theorem
student's t distribution
hypothesis testing
confidence intervals
linear regression (simple, multiple)
correlation
chi square tests
analysis of variance

Additionally, we will be using the Microsoft Excel software package

TEXTS

1)) McClave and Sincich, Statistics, 10th Ed

REQUIREMENTS AND ASSIGNMENTS

There will be 800 points available in this course:

3 exams at 150 points each	450
4 EXCEL assignments at 40 points each	160
1 group project	110
8 Homework assignments at 10 points each	80
Total	800

There will be scheduled lab sessions on specified days in which students can work on their EXCEL assignments. These assignments may be done in pairs. If students wish to do assignments at other times, they can find open computers at N250.

There is a large amount of material to be covered. It is understood that a student may have to miss classes due to other commitments; although missing classes tend to be detrimental to the understanding of the material. Historically classroom attendance has been found to be very beneficial. Class notes are meant to supplement, not substitute for attendance. **Students are held responsible for knowing what was said during class.**

Laptop computers **cannot** be used during exams.

Any class information can only be e-mailed to official Bellevue College e-mail address.

Group projects are to be done in groups, 2-4 students. Single student projects are on a case by case basis and must be approved by the instructor. Datasets need to be approved by instructor. Once a data set is approved for a group, that dataset is no longer available for any other group. Projects that had been turned in prior quarters **cannot** be used.

GRADING POLICY

In conjunction with the Bellevue Community College grading policy, the following grading system will be used in this course:

GRADE	PERCENTAGE	NO. OF POINTS
A	4.0	96-100
A-	3.7	92-95.9
B+	3.3	89-91.9
B	3.0	86-88.9
B-	2.7	84-85.9
C+	2.3	81-83.9
C	2.0	78-80.9
C-	1.7	75-77.9
D+	1.3	67-74.9
D	1.0	60-66.9
F	0.0	BELOW 60

Incomplete

If a student fails to complete all the required work for a course, an instructor may assign the grade of Incomplete ("I"). The student must complete the coursework by the end of the next quarter, or receive the assigned letter grade (usually an "F").

F Grade

Students who fail a course will receive a letter grade of "F."

Final Examination Schedule

The Social Science Division will adhere to the final examination schedule as stated in the BC Schedule. Final examinations will be held at the end of each quarter at fixed times. Instructors are not required to allow examinations in advance of the regular schedule.

A student who is absent from any examination held at any time during the quarter may forfeit the right to make up the examination. If, for illness or some other circumstance beyond the student's control, the student is unable to be present at any scheduled examination and has contacted the instructor on a timely basis, the student may be permitted to take such examination at a time designated by the instructor. Make-up Exams are on a case by case basis at the instructor's discretion. Documentation supporting reason may be required. If allowed, typically done within a couple of days during business hours (M-F 8A-4:30P) in the Social Science office, D110. Students are responsible for making necessary arrangements with employers.

Withdrawal From Class

College policy states that students must formally withdraw from a class by the end of the seventh week of the quarter (Registration Office, B125). If a student has not withdrawn by that date, an appropriate letter grade will be assigned for the course.

Hardship Withdrawal

Instructors may assign the grade of “HW” (hardship withdrawal) at their discretion in the event that a student cannot complete the coursework due to extreme and exceptional circumstances. Students may also contact the Enrollment Services office BEFORE grades are assigned in cases of hardship.

Distribution of Grades

Grades will not be posted in the Social Science Division or in faculty offices, and secretaries will not give out grades. Students should access their grades through the BC Web site.

Return of Papers and Tests

Paper and/or Scantron score sheet returns will be arranged in the following ways ONLY: by mail, if student supplies the instructor with stamped, self-addressed envelope (with appropriate postage); or by the instructor designating a time and place whereby the student may retrieve his/her papers. Unclaimed papers and/or Scantron score sheets must be kept by the instructor for a minimum of sixty (60) instructional days following the end of the quarter.

SPECIAL ACCOMMODATIONS

Students with disabilities who have accommodation needs are encouraged to meet with the Disability Resource Centre (DRC) office located in B132 (telephone 425.564.2498 or TTY 425.564.4110), to establish their eligibility for accommodation. The DRC office will provide each eligible student with an accommodation letter. Students who require accommodation in class should review the DRC accommodation letter with each instructor during the first week of the quarter.

Students with mobility challenges who may need assistance in case of an emergency situation or evacuation should register with Disability Resource Centre, and review those needs with the instructor as well.

POLICY REGARDING PLAGIARISM, STEALING, AND CHEATING

To be clear regarding plagiarism, stealing, and cheating, this course outline includes policy on these matters.

Cheating, stealing and plagiarizing (using the ideas or words of another as one’s own without crediting the source) and inappropriate/disruptive classroom behavior are violations of the Student Code of Conduct at Bellevue College. Examples of unacceptable behavior include, but are not limited to: talking out of turn, arriving late or leaving early without a valid reason, allowing cell phones/pagers to ring, and inappropriate behavior toward the instructor or classmates. The instructor can refer any violation of the Student Code of Conduct to the Dean of Student Services for possible probation or suspension from Bellevue College.

If you choose to cheat, steal, or plagiarize, the following actions will be taken:

- 1) First instance: you will receive a 0 score for the entire test/project regardless of the extent of the cheating. **Students who receive help and students who give help will be considered equally guilty.**
- 2) Second instance: you will receive a failing grade for the course and a report of the incident will be forwarded to the Dean of Students. He/she may file the report in your permanent record and/or take further disciplinary action.

If you are accused of cheating, stealing exams and/or plagiarism, there is a Bellevue College Student Discipline and Appeals Procedure (the right to due process) which you may pursue. Contact the office of Division Chair (D110), the Dean of Student Services (B231A) or the Associated Student Body (C212) for information regarding the appeals process.

CALENDAR

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WEEK 1: Reading – Apr 03 Chapter 2.1-2.8

Apr 05: Chapter 3.1-3.8

Apr 03: Course Requirements, Overview (Lecture 1) Describing Data (Lecture 2); Project Discussion(if time permits)

Apr 05: Probability (Lecture 3); Project Discussion(if not done on Tuesday)

WEEK 2: Reading – Apr 10: Chapter 4.1-4.2, 4.4

Apr 12: Chapters 5.3, 5.5, 6.3

Apr 10: Binomial Distribution (Lecture 4)

Apr 12: Normal distribution, Z-scores (Lecture 5); Central Limit Theorem (Lecture 6)

WEEK 3: Reading – Apr 17: Chapters 7.2-7.5

Apr 19: Chapters 8.1-8.5

Apr 17: Confidence intervals for Single Population (Lecture 7)

Apr 19: Hypothesis testing for Single Population (Lecture 8)

WEEK 4: Reading –

Apr 24: Examples (Practice 1, Review 1); Lab 1

Apr 26: Review for Exam 1 (Practice Problems for Exam 1) ; Teams selection and data selection due

WEEK 5: Reading – May 03: Chapters 9.2-9.3

May 01: EXAM 1

May 03: Confidence Intervals for Difference in Two Means (Lecture 9)

WEEK 6: Reading – May 08: Chapters 9.2-9.3

May 10: Chapters 9.4

May 08: Hypothesis Tests for Differences in Two Means (Lecture 10); Lab 2

May 10: Confidence Intervals and Hypothesis Tests for Difference in Two Proportions (Lecture 11)

WEEK 7: Reading –

May 15: Examples (Practice 2, Review 2); Review for Exam 2 (Practice Problems for Exam 2)

May 17: (cont) Review for Exam 2 (Practice Problems for Exam 2)

WEEK 8: Reading – May 24: Chapters 11.1-11.9, 12.1-12.3, 12.11

May 22: EXAM 2

May 24: Regression and Correlation (Lecture 13)

WEEK 9: Reading – May 31: Chapter 13.2-13.3

May 29: (cont) Regression and Correlation; Lab 3

May 31: Chi-square Tests (Lecture 12) There should be time for you to work with your project team)

WEEK 10: Reading – Jun 05: Chapter 10.1-10.2

Jun 05: Analysis of Variance (Lecture 14); Lab 4 (There should be time for you to work with your project team)

Jun 07 : Review for Exam 3; Excel portion of project due

WEEK 11: Reading –

Jun 12: Project Due at beginning of class; EXAM 3

Jun 14: NO CLASS

How to get to online files

**when you log into MyBCC, there should be a series of tabs near the top of the page
click the community tab (the right most tab)
in the find members box on the next page type my name: dan yamasaki
then hit the magnifying glass to get a search**

**you should be taken to a page with my name on it. select my name. There may be
multiple occurrences. The exact match one should work.**

**on the next page which should be my home page, you should see a list on the left hand
side. select shared documents**

on the next page, select the ba 240 statistical analysis class

on the next page should be the list of files available