

CENTRAL CONNECTICUT STATE UNIVERSITY

COURSE OUTLINE and SYLLABUS

FOR

Statistics for Behavioral Science I (STAT 215 - 01; CRN 13957)

(Mon Wed Fri 09:00 - 09:50a)

3 Credit Hours

Room No. MS 221

FALL 2010

Vasu M Bhatt
Stat 215/01
MWF
9:00-9:50

Instructor:
Vasu M. Bhatt

Important Phone Numbers Snow: 832-3333 Security: 832-2375 Math Dept (Dept Sec) 832-2835

READ THIS SYLLABUS CAREFULLY. YOU ARE RESPONSIBLE FOR KNOWING THIS INFORMATION

Class Policies for Statistics for Behavioral Science I (STAT 215)

Fall 2010

Course Title: Statistics for Behavioral Science I (STAT 215)

Credits: 3 Credits.

Textbook/Room No: Elementary Statistics, A Step by Step Approach; 7th Edition; Bluman; Mc Grow Hill
Class Room: MS 221

Intended Audience: The Stat 215-216 sequence is designed to meet the needs and program requirements of Social Science majors.
Note: Students whose program requires Stat 201 or those majoring in Business and/or Economics should take Stat 200. Students in Biology and Nursing program should take STAT 108 (Bio-statistics).

Course Goals: The primary objective of this course is to introduce students to the beginning ideas of Statistical Inference. To reach this end, concepts and techniques of descriptive statistics (including measures of central tendency, variation, and correlation), elementary probability distributions, random sampling and related topics will be addressed.

Topics Covered: (a) Summarizing data – frequency distributions and graphs
(b) Measures of central tendency, variability and location
(c) Correlation and regression
(d) Probability Distributions – binomial and normal
(e) Random sampling – sampling distributions
(f) Estimation and hypothesis testing

Instructor: Vasu M. Bhatt, Department of Mathematics; Telephone 832-2835. To reach me, leave the message with the department secretary, and I shall return the call

Office Hours: 10:00 to 11:00a M W F. Room Number MS 211, or by appointment

Supplies: The recommended calculator for this course is TI 83+. I will be using it in the class. **Remember that your calculator should be a tool, and not a crutch.** You also must have all the paraphernalia, such as ruler, eraser, pencil, a three-ring binder with separate sections for class notes, practice problems and home work problems, and three holed loose pages *etc.*

Requirements:

- (a) Attend and participate in class regularly; complete homework assignments and take exams as scheduled. **A general rule for this class is at least 6 hours per week outside of the class**
- (b) Reading: Read the section from the text on the topics covered in the previous class;
- (c) Tests: There will be three Exams (9-17, 10-8, 11-19), Mid-term (10-29), and a Final (12-13, 8:00 to 10:00a). Make-up for the missed exams (>1) will be given only if the dire emergency can be proved. If you miss one of the exams, no make up will be given. The missed exam will carry 0 points and will be dropped from computing the semester grade. No make up for the mid-term and the final
- (d) Class Participation: Be ready to answer questions on the topics covered and explain the solution of the problems to the class when asked
- (e) Attendance: Attendance will be taken at the beginning of the class. Two percent will be added to the semester grade of any student with perfect attendance; one percent if absent once. Lateness three times will count as an absence. Also, unexcused absences ≥ 4 will result into a maximum final grade of B; no exception
- (f) Course Pacing and Your Responsibility: In order to cover the material required in the course, it will be necessary to maintain, as closely as possible, the schedule set out in the syllabus. It is up to you to adjust your personal pacing accordingly. Although I will try to answer as many questions as I can in the class, be aware that I cannot "slow the course down" and still cover the material you need to know for the final exam. If you need to, use my office hours to come in for extra help. Be smart and come in for help as soon as you are having trouble.

This course is not a remedial course. Therefore, do not expect the same level of supervision that you may have received in Math 101. Be aware that a higher level of intellectual maturity and personal responsibility are expected from the students in this course than from those in Math 101. It is up to you to keep up with the course material, homework and reading the text book.

Moreover, you are expected to know the basic algebra; if you are rusty, it is up to you to refer to the algebra review and brush up as needed.

Of Utmost Importance: For this course, my expectation is that a student should put in at least 6 to 8 hours per week outside the class. **THE IMPORTANCE OF ATTENDENCE AND COMPLETION OF HOMEWORK ASSIGNMENT ON TIME CANNOT BE STRESSED ENOUGH.** The amount of time spent on course material outside the class and homework are usually directly proportional to the degree of success with which students complete this course.

Evaluation: Assignments, class participation, Exams, mid-term and final will all be considered. Students are expected to attend classes, participate in the discussions and complete the assignments on a regular basis.

Final grade: Final grade (Maximum of 100 points) for the semester will be arrived at by taking the sum of X, Y, and Z; Where –

- X represents 20% of average of points earned in homework assignments; class participation, attendance etc.;
- Y represents 40% of average of points earned in two **BEST** exams and the mid-term;
- Z represents 40% of the average of final and class project or projects, if given.

Note: Instead of combining Mid-term points with the exams (in Y above), they will be combined with Final and the average of Semester projects (in Z above), if this gives you a better final grade.

Passing grade is 61 points.

Letter grade will be assigned on the following basis:

A - 96 - 100	A- - 91 - 95	B- - 81 - 83
B+ - 88 - 90	B - 84 - 87	C- - 71 - 73
C+ - 78 - 80	C - 74 - 77	D- - 61 - 63
D+ - 68 - 70	D - 64 - 67	
F - 0 - 60		

Class room Practices: Traditional lecture-discussion techniques will be employed using overhead projector if and when necessary. New material will be introduced through discussions on the familiar concepts and previously studied material. Refer the assignment sheet for a detailed schedule showing the topics that will be covered in each week. Free exchange of ideas, questions, relevant experiences, etc., are encouraged. Late arrival and leaving the class in between will not be permitted.

There will be ample opportunity for the students to ask questions on the assignments and new material. Students are encouraged to take full advantage of my availability during my office hours. Prior appointment is recommended.

Statistical Software such as MS EXCEL, MINITAB, SPSS, etc should be used to do the Semester Projects. So, every student must get an account and be familiar with each of these. These are available in University's micro-lab.

Introductory guidelines for SPSS, a Statistical Package, will be distributed in the class. However, during the class work, emphasis will be put on the computational aspect of the course material. Some class projects and/or home work assignment will be based on SPSS. This package is available in the Micro Computer Lab. **Ability to use SPSS efficiently is a must.**

Classroom Etiquette: Please do not “chat” during the lecture. If you have any questions, by all means, signal and ask them. However, “chatting” is very distracting to me while I am trying to lecture and very distracting to other students who are trying to pay attention. If you chat, during the lecture, do not be surprised if you are asked to leave and not to come back to the class without a note from the chairperson of the Mathematics Department. Please pay extra attention to the projector slide (Re. Definitions of Academic Misconduct in the class) that will be put up on the first day of the class meeting. **Late arrival and leaving the class in between are very distracting and will not be permitted.**

Homework: Homework assignments will be announced in the class or a home work sheet will be given in the class. Although all the HW will not be collected, doing it is one of the most essential ingredients to passing the course. (To do the homework means to write it out carefully in a logical manner, not just to look it over or read the solutions). The HW is to be collected in a note book and will be examined periodically.

Some homework problems have to be turned in. These problems will also be announced in the class.

Be warned at the beginning:

- **If you are “allergic” to homework, then this course is not for you. Please do not waste time and energy.**
- **You will not be able to pass the exams and/or the course without doing the homework!!!!**

Miscellaneous:

- (a) Prerequisite: Math 101 Intermediate Algebra (C- or better) or Placement Exam.
- (b) Last day for free withdrawal: Oct 25, 2010. Please refer to the Undergraduate Catalogue for the official policy on dropping and withdrawing from the course
- (c) Makeup for the missed exams will be given only in documented extraneous circumstances. However, if you miss one of the exams, no make up will be given. The missed exam will carry 0 points and will be dropped. No make up for the midterm and the final

- (d) In the case of absence, the student is responsible to make up for the material in the missed class. **DO NOT**, repeat, **DO NOT** call me to ask for the home work assignment or what was covered in the class
- (e) If you need course adaptations because of disability, medical condition, or, if you have emergency medical information to share with me, or if you need special arrangements in case the building must be evacuated, please make an appointment with me as soon as possible. I am available after the class or, if you prefer, see me to schedule a meeting. I will need a copy of the accommodation letter from Student Disability Services in order to arrange you class adaptations. Contact Student Disability Services, room 241, Copernicus Hall if you are not already registered with them. Student Disability Services maintains the confidential documentation of your disability and assists you in coordinating reasonable accommodations with your faculty
- (f) The University's plagiarism policy will be strictly enforced. For more information on this or any other matter, either see me or refer to the Student's Handbook. Moreover, dates, school policies etc. mentioned in the school catalog or student handout will take precedence over those mentioned in this outline
- (g) Cell phones, laptops, PDA's and pagers must be turned off and stored away for the duration of the class
- (h) It is the responsibility of the student to collect graded work (Exam, Homework, Project, etc.) from the instructor during office hours if the student did not attend the class in which the work was returned
- (i) Students must have knowledge of MS EXCEL, SPSS and Graphers (TI 83 + preferred). Some problems will require using one or more of these. MS Excel is available in University's micro-lab. Visit the micro-lab to get an account, if you do not have a one
- (j) Any conduct or actions that grossly or persistently interfere with the academic process in the class will be considered as an **Academic Misconduct**. This includes, but not limited to, leaving the class temporarily, cracking jokes, giggling, talking to fellow students, distracting the class, etc. Please pay proper attention to an overhead slide that will be presented on the first day of the class
- (k) If you need help, take advantage of my office hours. Do not wait until just before the test
- (l) The learning center is located in Room 241, Copernicus. Free tutoring is available. A schedule for the hours the Center is open will be posted in the hallway

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- (m) Form a study group with other students in your section. Explaining/discussing the solutions to problems is a good way to learn
- (n) A list of private tutors for hire is available in the math department office, Room 107, Marcus White, 832-2835

Detailed Syllabus (Stat 215)

<u>Week of</u>	<u>Section(s) to be covered in the class</u>	
8 - 29	Preface, Chapter 1	
9 - 5	2.1 to 2.3	
9 - 12	2.4 to 3.2	Exam - 1 on 9-17
9 - 19	3.2 to 3.4	
9 - 26	3.5 to 4.1	
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10 - 3	4.2 to 4.4	Exam - 2 on 10 - 08
Get copies of Normal Curves		
10 - 10	5.1 to 5.2	
10 - 17	5.3, 6.1	
10 - 24	6.2 to 6.3	Mid-Term on 10 - 29
10 - 31	6.4 to 6.6	
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11 - 7	7.1 to 7.2	
11 - 14	7.3 to 7.4	
11 - 21	8.1 to 8.4	Exam - 3 on 11 - 19
11 - 28	10.1 to 10.3	
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12 - 5	Catch up	
12 - 12	Final on 12 - 13 (8:00 - 10:00 am)	

A109: csus215F10
6/20/10