Central Connecticut State University
Department of Mathematical Sciences

READ THIS SYLLABUS CAREFULLY.

Statistics for Behavioral Sciences I
STAT 215-02

3 credits          Fall 2021

By Allan G. Bluman

Instructor: Prof. G. Fosdick
Office: Maria Sanford - Room 211
Office Hours: 2:20 p.m. – 3:05 p.m.   TR
And by appointment
E-mail: gfosdick@ccsu.edu

Snow Day info.: Face-to-face virtual interactions are mandatory.

George Fosdick is inviting you to a scheduled Zoom meeting.

Join Zoom Meeting
https://ccsu-edu.zoom.us/j/88653005852?pwd=ZjZsNnh5WHZZRC9WWXRKdzI4ZEdGT09

Meeting ID: 886 5300 5852
Passcode: 111626
Statistics for Behavioral Sciences I Skill Area II

Prerequisite: MATH 101 (C- or higher) or placement exam.

Introductory treatment of research statistics used in behavioral sciences: Quantitative descriptive statistics, including frequency distributions, measures of central tendency and variability, correlation, and regression; a treatment of probability distributions including binomial and normal; introduction to the idea of hypothesis testing.

No credit given to students with credit for STAT 104, 108, 200, 314 or 315.

Students for Whom the Course is Intended: The Stat. 215-216 sequence is designed to meet the needs and program requirements of social and behavioral science majors.

Topics Covered:

A. Summarizing data – frequency distributions and graphs
B. Measures of central tendency, variability, and location
C. Correlation and regression
D. Probability Theory
E. Probability distributions – binomial and normal
F. Random sampling – sampling distributions
G. Estimation and hypothesis testing

Chapters 1-8, and 10 in the textbook are covered
Sections 1.1-1.5, 2.1-2.3, 3.1-3.4, 4.1-4.5, 5.1-5.4, 6.1-6.4, 7.1-7.4, 8.1-8.4, 10.1

Course and Classroom Policy:
(1). Attend and participate in class regularly; read the book and complete homework assignments, take quizzes and tests as scheduled (no email submissions please). Note: HW may be checked during class; please include the corresponding HW number on this assignment. Only on-time, legible work is acceptable.

A general rule for any college course is that you are expected to put in at least 2 hours of work outside of class for every hour in class. For a mathematics class, the expectation is at least 6 hours per week outside of class.

(2). It is virtually impossible to pass this course without completing the homework.
It would be like taking a course in swimming without ever getting in the water. Learn by doing; i.e., do the assigned homework diligently and read the textbook faithfully. For best results, complete more than the suggested homework
problems.

(3). Develop the ability to independently solve each problem (i.e., without aid from a tutor, an online resource, the textbook’s explanation and/or solution, etc.); answering each problem quickly and correctly on your own will be the key to success.

(4). Smart-phones, cell phones, and laptops are not to be used during class, or exams, unless special accommodations are necessary.

(5). Classroom etiquette:
   Be prompt       Be prepared       Be polite       Be productive

Final Exam: Tuesday, December 14 @ 1:00 p.m. – 3:00 p.m.

Evaluation Plan:
Test 1, 2, and 3                60%
HW/quizzes/computer projects    15%
Final exam                      25%

Note: To receive the grade of C- or better for the course, you must receive the grade of at least 60% on the final exam.

Minimum averages have been established for each of these grades:
  A    93%        B+   87%        C+   77%        D+   67%
  A-   90%        B    83%        C    73%        D    63%
  B-   80%        C-   70%        D-   60%

University’s Academic Integrity Policy: Any student who engages in any forms of academic misconduct will face disciplinary consequences. Academic sanctions can range from a reduced grade for the quiz or exam to a failing grade for the course. An Academic Misconduct Report may be filed, and a Faculty Hearing Board may impose sanctions such as probation, suspension, or expulsion. It is your responsibility to know the Student Code of Conduct (see http://www.ccsu.edu/page.cfm?p=4155) and the Policy on Academic Misconduct (see http://www.ccsu.edu/page.cfm?p=2468#Misconduct).

Additional University Policies:
1. You must take the final examination at the time specified in the course selection book.
2. If you need course adaptations or accommodations because of a disability, 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 as soon as possible.

3. In the event of weather emergency that requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message” or check the CCSU web page.

4. The last day to withdraw from a course is Wednesday, November 17. Approvals for withdrawal are not required. However, it is strongly recommended that students consult with their academic advisors prior to deciding to withdraw. Cessation of attendance, notice to instructor, or telephone calls to the Enrollment Center is not considered official notice of a student’s intention to withdraw from the course.

    After Wednesday, November 17 withdrawals are allowed only under extenuating circumstances and require approval of the course instructor, department chair and dean of the School of Arts and Sciences. Failure to withdraw properly from a course will result in a grade of F appearing on the transcript.

Resources Available:
1. If you need help, take advantage of instructor’s office hours. Do NOT wait until just before the test to do so.

2. The Learning Center (TLC) is in Carroll Hall, Room 016 (860-832-1900). For more information, visit their website at www.ccsu.edu/learnctr/. Free tutoring is available as well as free on-line eTutoring. The tutorial schedule, which includes both day and evening hours, is posted in The Learning Center and online by the end of the add/drop period. Student Disability Services is in Carroll Hall, 150: Stephanie Scapeccia, (860) 832-1952.

3. Form a study group with other students in your section. Explaining solutions to homework problems to each other is a good way to learn.

4. A list of private tutors for hire is available in the math department office, Room 128 Marcus White, 832-2835.

Note: Departures from this outline responsive to the needs of the students may be made at the discretion of the instructor.

Note: The HW page number is found on the same line as the section number or chapter; e.g.,

Homework 1, Read chapter 1, p36 – 37/#2, 14, 16, 17, 19, 23, 25

Homework 2 p51 – 52/#1 – 11, 13, 15, 16, 18, p67/#13, p91/#9
Homework 3.1 p122 – 127/#2, 7, 12, 26, 30, 31, 33, 34, 35
Homework 3.2 p143 – 147/#3, 4, 6, 7, 28, 31 – 33, 37, 38, 42
Homework 3.3 p159 – 161/#1 – 12, 16, 19, 22, 23, 26, 27, 29, 30
Homework 3.4 p172 – 173/#1 – 12, 15, 16

Homework 4.1 p198 – 201/#1, 2, 4 – 10, 18, 21, 26, 32, 33, 36, 40,
Homework 4.2 p206 – 209/#1, 2, 4, 5, 8, 10, 12, 23, 26, 28, 29, 30, 32
Homework 4.3 p222 – 226/#1, 2, 10, 13, 30, 32, 37, 56, 57
Homework 4.4 p235 – 238/#8, 10, 12, 13, 17, 18, 20, 22, 25, 28, 33, 36, 69
Homework 4.5 p245– 246/#1 – 8, 10, 11, 14

Homework 5.1 p263 – 264/#1 – 20, 30
Homework 5.2 p272 – 274/#1 – 7, 10 – 12, 14, 15, 22
Homework 5.3 p282 – 285/#1, 3, 5, 7, 9, 12, 15, 16, 17, 21, 34
Homework 5.4 p298 – 300/#1, 3, 4, 8 – 12, 16 – 18, 22

Homework 6.1 p322 – 324/#2, 5, 7, 15 – 17, 31, 41 – 45, 49, 55, 59
Homework 6.2 p337 – 340/#1 – 8, 23, 24, 26
Homework 6.3 p352 – 354/#1 – 10, 20, 25, 26
Homework 6.4 p360 – 361/#1 – 3, 9 – 16

Homework 7.1 p379 – 380/#1, 3, 9, 10, 11, 12, 14, 17, 25, 26
Homework 7.2 p387 – 388/#1, 4 – 6, 8, 18 – 20
Homework 7.3 p395 – 397/#1 – 4, 13 – 16, 19
Homework 7.4 p403–405/#1, 2, 4, 5, 8, 9, 12, 16

Homework 8.1 p426/#1 – 6, 10 – 14
Homework 8.2 p435 – 437/#1 – 6, 14, 17, 19, 22
Homework 8.3 p449 – 450/#1 – 3, 5, 7 – 11, 16, 21
Homework 8.4 p457–459/#3 – 11, 17, 20, 23
Homework 8.5 p469–470/#1, 5 – 10

Homework 10.1 p561–563/#1, 3, 4, 18, 21, 27