

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

STAT 215 - STATISTICS FOR THE BEHAVIORAL SCIENCES I

Section 06: MWF 10:00 - 10:50 A.M.

Section 07: MWF 12:00 – 12:50 P.M.

Instructor: Mrs. Donna Filipek Home phone: 828-0821 E-mail address: filipekd@ccsu.edu
Office hours: MWF: 11 A.M. - Noon (MS219), other times by appointment
Office phone: 832-2722

Course description: 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. Skill Area II.

Prerequisite: A grade of C- or better in Math 101

Students for whom the course is intended: Students majoring in any of the social sciences or in elementary education with a major in mathematics, as well as any student using the course as part of the General Education requirement. Students who are Business majors should take the Stat 200 - 201 sequence instead of this course.

Text: Elementary Statistics - A Step by Step Approach, 7th Edition, by Allan G. Bluman. Any solutions manuals or study guides accompanying this text are optional.

Calculator: You should have a calculator containing statistical functions with you in class each day. You will be permitted to use this calculator on all tests.

Computer Projects: You will be required to do three assignments using the SPSS statistical package. This package is available in the CCSU student computing center.

Homework will be assigned following every class. You will have the opportunity to ask questions about the previous assignment at the beginning of every class. You should plan on spending an average of two hours on each assignment. You are responsible for having homework done on time whether or not you attended the previous class. Although most homework assignments are not collected, the problems are chosen to help you develop the skills necessary to score well on exams.

Attendance is expected at every class meeting. You are responsible for any material or assignments given during classes you do not attend. The importance of regular attendance and completion of homework assignments on time cannot be stressed enough.

Cell phones and beepers are to be turned off (or to vibrate only) before entering the classroom. Cell phones, laptops and PDAs are not to be used during class, exams, or quizzes unless special accommodations are necessary. No food is to be consumed in the classroom.

Tests: Five class tests will be given. Each test will be worth 100 points. Tentative test dates are shown on the attached schedule. No make-up tests will be given for any reason, but your lowest test grade will be dropped.

Other graded assignments: A take home quiz (worth 40 points) will be given on the material from chapter 2. In lieu of in-class quizzes, five graded homework assignments (worth 15 points each) will also be assigned. The lowest graded assignment grade will be dropped. There will be a 20% penalty for quizzes or assignments turned in late. If you cannot make it to class on the due date of an assignment, you must email me the answers for that assignment on the due date in order to avoid the late penalty. You may then turn in the work for that assignment on the next class day. No quizzes or assignments will be accepted more than one class after the due date.

Final exam: A cumulative final exam worth 150 points will be given. The final exam is mandatory for all students except those who have maintained an average grade of 95 or higher on all five tests (plus projects and graded assignments). Although cumulative, the exam will concentrate more heavily on material covered during the second half of the course.

You will be permitted to bring one 8 1/2 by 11 inch paper sheet (both sides) of notes into each test, with the following restriction: The notes must be handwritten in your own handwriting (no photocopies). Your sheet of notes may contain any formulas, definitions, or sample problems that you wish to write down. Your notes will be collected along with each test.

Anyone caught cheating on a test will automatically be given a grade of zero for that test. In addition, in accordance with the University Policy on Academic Misconduct, an Academic Misconduct report will be submitted for any student caught cheating. Tests must be completed during the class period unless you bring me a note from the Special Student Services Department indicating that you have a special need for untimed tests.

Final grade: Your final grade will be determined by calculating a weighted average of your test grades, your take-home quiz grade, your computer project grades, and your final exam grade. The breakdown of grades is as follows: 93 + up A

90 - 92	A -
87 - 89	B +
83 - 86	B

Attendance, class participation, and any upward or downward trend of your test grades will also be considered when assigning your final grade if your final average is near the borderline between two grades.

University Policies:

1. You must take the final examination at the time specified in the course selection book:
10:00 class: Wednesday, December 15th 8:00 – 10:00 A.M.
12:00 class: Wednesday, December 15th 11:00 A.M. – 1:00 P.M.
2. Please contact me privately to discuss your specific needs if you believe you need course accommodations based on the impact of a disability, medical condition, or if you have emergency medical information to share. I will need a copy of the accommodation letter from Student Disability Services in order to arrange your class accommodations. 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.
3. In the event of a weather emergency which requires curtailment or cancellation of classes, listen to WTIC (1080 AM) or call (860) 832-3333 for the “general snow message.”
4. The last day to drop a course is Monday, October 25th. From September 8th through October 25th, students may withdraw from the course by completing a withdrawal form, available in the Enrollment Center, in Willard Hall. During this period 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 the instructor, or telephone calls to the Enrollment Center, are *not* considered official notice of a student’s intention to drop the course. After October 26th, withdrawals are allowed only under extenuating circumstances and with appropriate supporting documentation and require approval of the course instructor, department chair and dean of the School of Arts and Sciences.
5. You are responsible for understanding and abiding by the University’s policy on academic integrity. Information on the policy may be found at <http://www.ccsu.edu/AcademicIntegrity/>. This policy is rigorously enforced by the Department of Mathematical Sciences.

Resources Available:

1. If you need help, take advantage of my office hours. Please arrange an appointment with me if you are not available during my normal office hours. Do not wait until just before the test to do so.
2. The Learning Center is located in Rooms 241 and 242, Copernicus. Free tutoring is available. A schedule for hours the Center is open will be posted soon after the beginning of the semester.
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 107 Marcus White, 832-2835.

Tentative schedule and homework assignment sheet

<u>Date:</u>	<u>Sections covered</u> (Read these sections)	<u>Do the following problems for homework:</u>
Mon., Aug. 30th	1-1 thru 1-3	pp. 26 - 27 # 8, 9
Wed., Sep. 1st	1-4 thru 1-5	pp. 26 - 28 # 4, 5, 12, 14, 17 pp. 29 - 30 # 1, 4, 5, 6, 10, 12, 14, 16, 17, 18, 24
	2-3 thru middle of p. 80	p. 46 # 7 pp. 84 - 85 # 1, 10
Fri., Sep. 3rd	2-1	p. 46 # 3, 5 Worksheet on frequency distributions
Wed., Sep. 8th	2-2	p. 61 # 1, 8
	middle of p. 80 thru bottom of p. 83	p. 86 # 15 p. 97 # 21 (use the first 2 digits as the stem value)
		Take-home quiz (due Mon., Sep. 13th)
Fri., Sep. 10th	3-1	pp. 118 - 121 # 1, 7, 15, 17, 27, 31, 33
Mon., Sep. 13th	bottom of p. 143 thru bottom of p. 151	pp. 153 - 155 # 5, 22, 23, 25, 27*, 29
	3-4	pp. 166 - 167 # 1, 3, 7, 13 Graded assignment # 1 (due Fri., Sep. 17th)

<u>Date:</u>	<u>Sections covered</u> (Read these sections)	<u>Do the following problems for homework:</u>
Wed., Sep. 15th dev.)	3-2 thru bottom of p. 129	pp. 137 - 139 # 1, 3, 4, 6 (use the def. to compute std.
	pp. 132 - 133	# 9, 11 (use the shortcut formula) #13, 30, 31
Fri., Sep. 17th	3-3 (pp. 142 thru middle of p. 143)	pp. 153 - 154 # 1, 11, 15
	3-2 (pp. 134 - 136)	p. 140 # 32, 33, 39, 40 Worksheet on the empirical rule Review sheet for test # 1
Mon., Sep. 20th	using SPSS for descriptive statistics Computer project # 1 assigned (due Fri., Sep. 24th)	
Wed., Sep. 22nd	test # 1 on chap. 1 - 3	
Fri., Sep. 24th	4-1 thru top of p. 185	p.198 # 31 - 33
	4-4	pp. 233 - 234 #1, 3, 9, 12, 27 - 33 odd
Mon., Sep. 27th	4-1	pp. 195 - 198 # 2, 3, 5 - 13, 21, 24, 28, 37
Wed., Sep. 29th	4-2	pp. 204 - 206 # 1, 2, 3 - 11 odd, 17, 19
		pp. 222 - 224 #33, 34, 35 a and b, 36 a and b
Fri., Oct. 1st	4-3	pp. 220 - 223 # 3, 5, 7, 12, 16, 17 - 19, 21, 23, 37, 39 Worksheet on the multiplication rule Graded assignment # 2 (due Wed., Oct. 6th)
Mon., Oct. 4th	5-1	pp. 258 - 259 # 6 - 18, 29, 30
	5-2	pp. 267 - 268 # 1*, 3, 5, 11, 15, 17
<u>Date:</u>	<u>Sections covered</u> (Read these sections)	<u>Do the following problems for homework:</u>

Wed., Oct. 6th	5-3 (thru bottom p. 259) of p. 274	p. 277 # 1 - 3, 5, 11
Fri., Oct. 8th	5-3	pp. 277 - 278 # 7a and c, 14 a - c, 15, 19, 21, 25, 27
Mon., Oct. 11th	review for test # 2	
Wed., Oct. 13th	test # 2 on chap. 4 - 5	
Fri., Oct. 15th	6 -1 (thru p. 308)	pp. 311 - 312 # 3, 4, 7 - 15 odd, 27- 35 odd
	6-2 (thru bottom of p. 319)	p. 325 # 1 - 7 odd
Mon., Oct. 18th	pp. 309 - 310	pp. 312 - 313 # 40 - 48
	pp. 320 - 321	pp. 326 - 327 #17, 19, 21, 25, 26, 29
		Graded assignment # 3 (due Fri., Oct.22nd)
Wed., Oct. 20th	6-4	p. 346 # 2(c - e), 3, 5, 7*, 8
Fri., Oct. 22nd	6-3	pp. 338 - 340 #1 - 7, 9, 15, 21
Mon., Oct. 25th	review for test # 3 COURSE WITHDRAWAL DEADLINE	
Wed., Oct. 27th	test # 3 on chap. 6	
Fri., Oct. 29th	7-1 (thru middle of p. 355)	p. 366 # 1, 2, 3, 6, 9, 11, 14
Mon., Nov. 1st	7-2	pp. 374 - 375 # 3, 4, 5, 7, 9, 17
	bottom of p. 363 thru p. 365	p. 367 # 21, 23 - 25
<u>Date:</u>	<u>Sections covered</u> (Read these sections)	<u>Do the following problems for homework:</u>
Wed., Nov. 3rd	8-1	Worksheet on writing hypotheses

p. 412
12

Graded assignment # 4 (due Mon., Nov. 8th)

Fri., Nov. 5th

8-2 (thru top of
p. 418)

pp. 422 - 423
1, 5, 9, 11, 13

Mon., Nov. 8th

pp. 418 - 421

pp. 423 - 424
15 - 23 odd

For problems 17 and 19, try to support the claim
For problem 23, try to show that the average
mileage \neq 30,000 miles

middle of p. 457 thru
top of p. 459

p. 461
1, 3, 5

Wed., Nov. 10th

8-3

pp. 434 - 435

3, 4, 5, 7, 9, 17 (for #17, try to prove that
the average has changed)
Also, find the p-value for each of the
above problems

Fri., Nov. 12th

using SPSS for confidence intervals and hypothesis testing

Computer project # 2 assigned (due Fri., Nov. 19th)

Mon., Nov. 15th

review for test # 4

Wed., Nov. 17th

test # 4 on chap. 7 - 8 (means only)

Fri., Nov. 19th

7-3

pp. 382 - 383

1, 2, 3 - 9 odd, 15 - 19 odd

Mon., Nov. 22nd

8-4

pp. 442 - 443

3, 5, 9, 11, 19, 20

Also find the p-value for each hypothesis

test

(In each problem, round \hat{p} to 4 dec. places)

Graded assignment #5 (due Wed., Dec. 1st)

<u>Date:</u>	<u>Sections covered</u> (Read these sections)	<u>Do the following problems for homework:</u>
Mon., Nov. 29th	10-1	pp. 548 - 549 # 1, 3, 4, 5, 15, 17, 23 given the following: problem # 15: $r = -.883$ problem # 17: $r = .104$ problem # 23: $r = .883$
	10-2	pp. 558 - 559 # 3, 4, 6, 7, 8, 9, 15, 23 given the following: problem # 15: $a = 453.176, b = -50.439$ problem # 23: $a = -8.994, b = .1448$
		Review sheet for test # 5
Wed., Dec. 1st	using SPSS for correlation and regression Computer project # 3 assigned (due Wed., Dec. 8th)	
Fri., Dec. 3rd	review for test # 5	
Mon., Dec. 6th	test # 5 on chap. 7 - 8 (proportions only) and chap. 10	
Wed., Dec. 8th	review for final exam	
Wed., Dec. 15th	8 - 10 A.M. - final exam for 10:00 class 11 A.M. - 1 P.M. - final exam for 12:00 class	