STAT 216 Statistics for Behavioral Sciences II
Section 01 – Credits 3
Tuesdays and Thursdays: 12:15pm – 1:30pm
Ebenezer D. Bassett Hall (EDB) 104

Instructor: Adam Scharfenberger, Ph.D.
Office Hours: Monday, 3:00pm – 4:30pm
Tuesday, 1:45pm – 3:45pm
Wednesday, 4:30pm – 6:00pm
Office: Marcus White Hall 120
Email: scharfenberger@ccsu.edu
Phone: (860) 832-2860

Description
This course is a continuation of STAT 215. Survey of statistical tests and methods of research used in behavioral sciences, including hypothesis testing, two-sample and paired t-tests, analysis of variance (ANOVA), and simple linear regression. No credit will be given to students with credit for STAT 201, STAT 416 or STAT 453.

Prerequisites
STAT 215 or permission of instructor

Textbook

Calculator Use
You will be expected to use a calculator on homework, tests, and work done in class. The Texas Instruments TI 83 or TI 84 (and plus versions) is recommended. We will learn first how to perform statistical operations by hand and calculator. Bring a calculator to class.

Statistical Software
Part of the course will consist of learning SPSS.
Students can access SPSS off the Citrix server (apps.ccsu.edu).
- SPSS is located within the General Lab Desktop.
- You can use your OneDrive to get assignments in and out of the environment.
- Instructions: https://www.ccsu.edu/it/files/Using%20OneDrive%20with%20Citrix.pdf
- Also see the Accessing SPSS through Citrix pdf on Blackboard.
Please make sure you can access SPSS on your computer ASAP.

Cell Phones and Other Communication Devices
- Must be turned on silent at all times during class.
Course Requirements

You are expected to attend and participate in all class sessions and activities, complete assignments, and take examinations as scheduled. 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 this course, the expectation is at least 6 hours per week outside of class.** Please have your supplies for each class. Homework should be completed prior to coming to class. If an emergency occurs and you will not be able to attend class, please notify me by sending an email.

Evaluation

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<tr>
<td>Exam 1</td>
<td>20%</td>
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<td>Exam 2</td>
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<td>Final Exam</td>
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<td>Assignments</td>
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<td>Attendance/Class Participation</td>
<td>5%</td>
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<td><strong>Total</strong></td>
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Exam 1: 20% (Thursday, September 30, 2021)
Exam 2: 20% (Thursday, November 04, 2021)
- Two exams will be given. You are required to take the exams on the scheduled dates. Make-up exams will be given only in extenuating circumstance and you must contact me before the scheduled exam time. Make up exams must be completed by the next scheduled class meeting.

Final Exam: 20% (Tuesday, December 14, 2021; 10:30am – 12:30pm)
- The final exam will cover material from the entire course and must be taken at the time designated during the final exam week.

Assignments: 35%
- Assignments include both homework and lab assignments.
- Homework assignments will not be accepted as late.
- Lab assignments can be turned in within 24 hours after the due date and time with a 20% deduction.

Attendance/Class Participation: 5%
- You are expected to attend all classes. In the case of an unavoidable absence, please notify me in advance of the date. You can miss two classes with no penalty.
### Final Grades

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### Topics Covered and Tentative Semester Plan

- Week 1: Mean and Variance
- Week 2: Discrete Random Variables
- Week 3: Continuous Random Variables
- Week 4: Confidence Intervals for One-Sample Mean
- Week 5: Hypothesis Tests for One-Sample Mean
- **Week 6: Exam 1 (Thursday, September 30, 2021)**
- Week 7: Two-Sample *t*-test and Paired *t*-test
- Week 8: Analysis of Variance (ANOVA)
- Week 9: Multiple Comparisons
- Week 10: One-Sample Proportions
- **Week 11: Exam 2 (Thursday, November 04, 2021)**
- Week 12: Two-Sample Proportions
- Week 13: Simple Linear Regression Part 1
- Week 14: Simple Linear Regression Part 2
- Week 15: More on Simple Linear Regression
- Week 16: Wrap Up
- **Final Exam: Tuesday, December 14, 2021**

Please note: Adjustments might be made to the syllabus if the class is required to go online.

### Important Dates

- Nov. 17, 2021: Last day to withdraw from a full semester course without approval
- Dec. 14, 2021: Final Exam: 10:30am – 12:30pm, Ebenezer D. Bassett Hall 104
- Final Exam Schedule: [https://www.ccsu.edu/registrar/calendar/finalsSchedule.html](https://www.ccsu.edu/registrar/calendar/finalsSchedule.html)
**Resources Available**

1. If you need help, take advantage of your instructor's office hours. Do not wait until just before the first test to do so.
2. The Learning Center is located in Room D-316, Diloreto Hall. 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 main office, Room 128 Marcus White, 832-2835.

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**University Policies**

**The Final Exam Policy**
You must take the final examination at the time specified. The final exam dates are determined by the University. For this class the final will be on Tuesday, December 14, 2021, from 10:30am – 12:30pm in Ebenezer D. Bassett Hall 104.

**Academic Integrity**
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/](http://www.ccsu.edu/AcademicIntegrity/). This policy is rigorously enforced by the Department of Mathematical Sciences.

**Americans with Disabilities Act (ADA) Syllabus Statement**
If you are a student with a documented disability, and would like to request academic accommodations, you are encouraged to contact Student Disability Services (SDS) at 860-832-1952, or email disabilityservices@ccsu.edu. Please visit the SDS website at http://www.ccsu.edu/sds/ to download an Intake form and documentation requirements. Temporary impairments may also qualify for accommodations. Central Connecticut State University provides reasonable accommodations in accordance with the Americans with Disabilities Act and Section 504 of the Rehabilitation Act for students with documented disabilities on an individualized basis.

**Statement on Discrimination and Harassment**
Central Connecticut State University strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment based upon age; ancestry, color; gender identity and expression; intellectual disability; learning disability; mental disorder; physical disability; marital status, national origin; race; religious creed; sex, (including pregnancy, transgender status, sexual harassment and sexual assault); sexual orientation; or any other status protected by federal or state laws. Any student who has concerns about should contact the Office for Equity & Inclusion (OEI) at 860-832-1652, Student Affairs at 860-832-1601, or their faculty member. The OEI is located on the main floor of Davidson Hall, room 119.
Sexual Misconduct, Intimate Partner Violence and Stalking

Central Connecticut State University (CCSU) will not tolerate sexual misconduct against students, staff, faculty, or visitors in any form, including but not limited to: sexual assault, sexual exploitation, sexual harassment or stalking, as defined in CCSU policies. For additional information, please consult the CCSU policy at https://www.ccsu.edu/diversity/policies/index.html. All faculty members and staff have a duty to report incidents of sexual harassment including sexual misconduct, intimate partner violence and stalking to Pamela Whitley, Title IX Officer, Office for Equity & Inclusion, Davidson Hall, 119.

To file a report, contact: Equity & Inclusion (860-832-1652), Student Conduct (860-832-1667) or Student Affairs (860-832-1601). For criminal complaints, contact the University Police (860-832-2375).

For support and advocacy, contact: Office of Victim Advocacy at 860-832-3795; Student Wellness Services at 860-832-1945 (confidential); Women’s Center at 860-832-1655; the local YWCA’s Sexual Assault Crisis Services Hotline at 860-223-1787 (confidential) and Prudence Crandall Center for Domestic Violence (confidential) at 888-774-2900 (24-hour hotline).