



The mission of Concord University is to provide a quality, liberal arts based education, to foster scholarly and creative activities and to serve the regional community (<http://www.concord.edu/academics/>).

## Part 1:



### Psy 212 Introduction to Behavioral Statistics

**CRN:** 20383

**Section:** 01

**Semester:** Spring 2019

**Credit Hours:** 3.0

**Prerequisites:** N/A

**When:** T & Th 11:00 – 12:15

**Where:** Admin 303

**Professor:** Dr. Rodney Klein

**Office:** Administration Building - Room 114 or Student Center-Rm 111 (McNair Office)

**Office Hours:** M & W: 12:00 – 1:30 or by appointment

T & Th: 10:00 – 11:00 or by appointment

**Email:** [kleinr@concord.edu](mailto:kleinr@concord.edu)

**Phone:** (304) 384-5222 or (304) 384-6020

**Fax:** (304) 384-6091

**Division of Social Sciences Website Address:** <http://www.concord.edu/social-sciences/node/8>

**Psychology Program Website Address:** <http://www.concord.edu/psychology/>

## Part 2:

**Course Description:** An introduction to the statistical techniques used in psychology and other behavioral sciences will be examined. Students will learn to calculate relevant statistics as well as how to apply statistical techniques to behavioral data.

**Course Management System:** this course will use Blackboard

**Text(s): Required:** Spatz, C. (2011). *Basic Statistics, 10<sup>th</sup> Edition*. Wadsworth Publications.

## Concord University Educational Goal(s):

**Knowledge #4:** Acquaintance with principles underlying languages, for example linguistic, mathematical, and computer language systems.

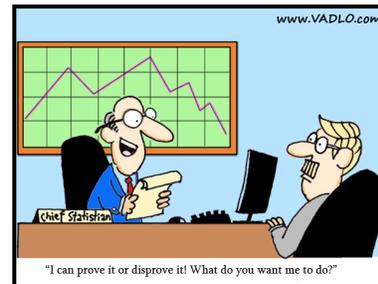
**Learning Outcome(s): Section 1 – Final Exam (Knowledge #4): Ability to appropriately read and interpret SPSS statistical information in regards to the research story problem .**

## Course Goals:

The goal of this course is to introduce you to many of the statistical techniques that you may encounter either when reading research articles, at work, in future statistics courses, or elsewhere in your daily lives (because you do encounter them in your daily lives). This course will not teach you everything that you will ever need to know about statistics, but hopefully, it will be a good first step. The course will not only introduce you to the fun aspect of statistical equations and calculating them by hand (and toes) but also introduces you to SPSS, one of several statistical software packages that can be used to analyze research data, and one that is widely used in many graduate programs.

You should not be intimidated by this course, and if you have any math phobias this will be a good opportunity to get over them. The math is not impossible, but a calculator is necessary. Keeping a few things in mind during the semester will hopefully reduce any anxiety that you may have:

- 1) Only rare people can memorize all of the formulas that will be needed, therefore, I do not expect you to.
- 2) Statistics are not impossible, however, it does require practice, just like a foreign language or any other course. It is therefore in your best interests to keep up and ask questions early before you fall behind.
- 3) Finally, there are worse things in life than statistics, in fact, **statistics can be fun!**



## Course Requirements:

**Assignments:** Each of the five assignments are worth 15 points. Each of the assignments cover the materials that were presented and discussed during each unit.

**Exams:** There are five exams. Exams 1 – 4 are worth approximately 60 points each and Exam 5 is worth approximately 80 points.

**Grading Policy and Scale:**

- A = 90% and Above
- B = 80% to 89%
- C = 70% to 79%
- D = 60% to 69%
- F = Below 60%

**Make-up Policy and Late Work Policy:** It is the responsibility of the student to contact the professor if assignments or exams are not submitted or completed by the assigned deadline in order to make appropriate arrangements.

**Tentative Course Timeline (Schedule of Assignments/Assessments/Presentations):**

| <u>Week #</u> | <u>Dates</u> | <u>Topic/Assignment</u>   | <u>Chapter</u> |
|---------------|--------------|---|----------------|
| 1             | 1/15 1/17    | Introduction to the Course and Statistics   | 1              |
| 2             | 1/22 1/24    | Exploring Data: Frequency Distributions and Graphs  | 2              |
| 3             | 1/29 1/31    | Exploring Data: Central Tendency  | 3              |
| 4             | 2/5 2/7      | Exploring Data: Variability and <b>Assignment 1 &amp; Exam #1</b>   | 4              |
| 5             | 2/12 2/14    |   |                |
| 6             | 2/19 2/21    | Other Descriptive Statistics  | 5              |
|               |              | Correlation and Regression  | 6              |
| 7             | 2/26 2/28    | Theoretical Distributions Including the Normal Distribution   | 7              |
| 8             | 3/5 3/7      | Samples, Sampling Distributions, and Confidence Intervals and <b>Assignment 2 &amp; Exam #2</b>                     | 8              |
| -----         |              |   |                |
| 9             | 3/12 3/14    | Spring Break  |                |
| -----         |              |   |                |
| 10            | 3/19 3/21    | Hypothesis Testing, Effect Size: One-Sample Designs   | 9              |
| 11            | 3/26 3/28    | Hypothesis Testing, Effect Size, and Confidence Intervals: Two-Sample Designs and <b>Assignment 3 &amp; Exam #3</b> | 10             |
| 12            | 4/2 4/4      | Analysis of Variance: One-Way Classification  | 11             |
| 13            | 4/9 4/11     | Analysis of Variance: One-Factor Repeated Measures  | 12             |
| 14            | 4/16 4/18    | Analysis of Variance and <b>Assignment 4 &amp; Exam #4</b>  |                |
| 15            | 4/23 4/25    | Chi Square Tests  | 14             |
| 16            | 4/30 5/2     | Choosing Tests and Writing Interpretations  | 16             |
| 17            | 5/4          | Tuesday, 11:30 – 1:45 <b>Assignment 5 &amp; Final Exam</b>  |                |

## **Part 3:**

### **Accessibility/Accommodations:**

Concord University is committed to responding to the needs of students with disabilities as defined by the Americans with Disabilities Act. Please inform your instructor at the beginning of the class semester if you have a disability and are requesting accommodations. It is your responsibility to self-disclose that you are requesting accommodations. The University and instructor will provide you with a reasonable accommodation. You should register with CU's Disability Services Office, located in the Athens campus Jerry and Jean Beasley Student Center, Bottom Floor, across from the Campus Post Office. The Disability Services Office phone is 304-384-6086 or you can email the Director, Nancy Ellison, at nellison@concord.edu for assistance.

### **Academic Dishonesty**

Academic dishonesty is morally unacceptable as well as destructive to the learning and teaching atmosphere. Academic dishonesty includes the giving or receiving of improper help on examinations or assignments, falsifying documents, and plagiarism (the act of stealing and using, as one's own, the ideas or the expression of the ideas of another). Such dishonesty can lead to a variety of penalties — including but not limited to failure of assignment, failure of course, loss of institutional privileges, or dismissal from the University. (See University Catalog Academic Policies and Procedures.)

### **Concord University Honor Code**

A Concord University Honor Code was approved by students, staff, faculty, administration, and the CU Board of Governors. The Code states:

*"As a member of the Concord University Community I will act with honesty and integrity in accordance with our fundamental principles and I will respect myself and others while challenging them to do the same."*

The Honor Code is intended to unite the Concord community behind a culture of honesty, integrity, and civility.

### **Class/Online Attendance Policy**

Regular class attendance is part of a student's academic obligation at Concord. Irregular attendance may affect academic performance adversely and is detrimental to the atmosphere of a class. (See University Catalog Academic Policies and Procedures.)

### **Emergency Alert System**

In an effort to increase safety and security on our campus, Concord University encourages everyone to register for instant text message alerts. Alerts will only be used for security and safety notices. All students, faculty, and staff are eligible to receive text message alerts on their cell phones or email alerts. Please contact the IT Help Desk for further assistance (304-384-5291).

### **Emergency Information**

Emergency/courtesy telephones are located at the main entrance of each residence hall and at various other locations on campus. Emergency telephones can be identified by the flashing blue light and will provide the user with a direct link to Public Safety at the press of a button. To report an on-campus emergency, call 304-384-5357 or 911. The Office of Public Safety is located on the bottom floor of the

Rahall Technology Center. For further emergency information go to:  
<http://www.concord.edu/administration/office-public-safety>.

### **Inclement Weather Policy**

As a general policy, the University will remain in normal operations during adverse weather conditions. In the event of severe weather conditions, the following may occur:

#### University Closure

No students or employees are to report.

#### Classes Cancelled

Students do NOT report BUT employees are expected to report to work at their normal time.

#### Operating on an Inclement Weather Delay

Under this schedule, all 8 a.m. classes will start at 10 a.m. Students and faculty will follow the Inclement Weather Schedule. (See <http://www.concord.edu/emergency-alerts> for Athens/Beckley Inclement Weather Schedules.)

*\*Announcements invoking the late schedule or other options referenced above are aired on area radio and television stations and are sent as text and email messages to those enrolled for this service.*

Inclement Weather schedule:

| MWF Classes<br>Regular | MWF Classes<br>Inclement | TR Classes<br>Regular | TR Classes<br>Inclement |
|------------------------|--------------------------|-----------------------|-------------------------|
| 8:00-8:50              | 10:00-10:40              | 8:00-9:15             | 10:00-11:00             |
| 9:00-9:50              | 10:45-11:25              | 9:30-10:45            | 11:05-12:05             |
| 10:00-10:50            | 11:30-12:10              | 11:00-12:15           | 12:10-1:10              |
| 11:00-11:50            | 12:15-12:55              | 12:30-1:45            | 1:15-2:15               |
| 12:00-12:50            | 1:00-1:40                | 2:00-3:15             | 2:20-3:20               |
| 1:00-1:50              | 1:45-2:25                | 3:30-4:45             | 3:25-4:25               |
| 2:00-2:50              | 2:30-3:10                |                       |                         |
| 3:00-3:50              | 3:15-3:55                |                       |                         |

### **Student Conduct**

In classrooms, online, laboratories, and during any activities that are part of course requirements, students are expected to observe reasonable rules of conduct.

### **Sexual Harassment & Assault**

Federal law, Title IX, and Concord University policy prohibits discrimination, harassment, and violence based on sex and gender (Including sexual harassment, sexual assault, domestic/dating violence, stalking, sexual exploitation, and retaliation). If you or someone you know has been harassed or assaulted, you can receive confidential counseling support through the Concord University Counseling Center (304-384-5290). Alleged Violations can be reported non-confidentially to the Concord University Title IX Coordinator at 304-384-6327 or [titleix@concord.edu](mailto:titleix@concord.edu). Reports to Campus Security can be made at (304-384-5357). As an employee at Concord University, I am a mandatory reporter which means I must report any sexual misconduct I am made aware of. This includes verbal or written (such as in an assignment) disclosures of sexual harassment or sexual assault.

## **Technology Services**

Contact the CU Help Desk at extension 5291 from campus or 304-384-5291 off campus. You may also e-mail [cuhelpdesk@concord.edu](mailto:cuhelpdesk@concord.edu).

## **Sources of Help:**

*Drop-In Tutoring:* free tutoring is available in the Library, Student Center Study Lounge (2<sup>nd</sup> floor), and Rahall atrium. For specific information, contact the Academic Success Center ([asc@concord.edu](mailto:asc@concord.edu) or 304 384-6074)

*SMARTHINKING:* free online tutoring in most subjects is available 24/7. You may sign up through the MyCU Student Tab.

## **Syllabus Disclaimer**

"This syllabus is subject to change based on the needs of the class. Please check it regularly."