

**PSYCH 3000-02 CRN-26642**  
**STATISTICAL METHODS IN PSYCHOLOGY**  
**Monday, Wednesday, Friday 9:00a – 9:50a (Room McDonald 102), and**  
**Monday Wednesday 10:00a – 10:50a (Room McDonald 111)**  
**SPRING SEMESTER, 2014**

**PROFESSOR: Kristine J. Olson, Ph.D.**

**OFFICE HOURS: McDonald, Room 212; Mon 2p-3p; Tue/Thurs: 12:00pm-2:00pm**

**TELEPHONE: 435-879-4405 (office) (least effective method to reach me)**

**EMAIL: [kjolson@dixie.edu](mailto:kjolson@dixie.edu) (best and preferred method to reach me ☺)**

**REQUIRED TEXTBOOK**

Fundamental Statistics for the Behavioral Sciences, 7<sup>th</sup> Edition or 6<sup>th</sup> Edition by David C. Howell  
ISBN:0495811254 for the 7<sup>th</sup> Edition  
ISBN:0495099007 for the 6<sup>th</sup> Edition

**REQUIRED SOFTWARE**

IBM SPSS Single User License. This is required and will cost about \$60. You can find information at [www.onthehub.com](http://www.onthehub.com). You will need the 6 month rental. It is a program you download from the internet. You can either load the software on the lab computer for your use, or you can load the software onto a personal laptop that you can bring to class. Please ask the instructor for further details.

**RECOMMENDED TEXTBOOK**

Publication Manual of the American Psychological Association, Sixth Edition by American Psychological Association (Jul 2009). ISBN: 9781433805615

**COURSE DESCRIPTION:**

Required of Psychology majors. An introduction to and application of statistical methods in psychological research. Students will design and measure psychological constructs, select, compute, and interpret descriptive and inferential statistics, use computer technology to facilitate statistical analyses, accurately represent the results of statistical analyses, and critically analyze methodological and statistical arguments. Combined lecture / lab. Prerequisites: PSY 1010; and MATH 1040; Psychology Major or Integrated Studies Emphasis in Psychology major; or instructor permission.4 credits.

**PSYCHOLOGY MAJOR**

This is required for the Psychology Bachelor degree (BA/BS)

**OTHER MATERIALS**

You may bring your laptop to class. PowerPoint slides will be available on CANVAS <https://canvas.dixie.edu/> . Please bring a notepad and pen/pencil to each class so that you are able to participate in class Tests and other in-class activities.

## **COURSE LEARNING OBJECTIVES**

This course will meet the following Psychology Learning Objectives:

*LEARNING GOAL 1: RESEARCH METHODS IN PSYCHOLOGY: Understand and apply basic research statistics in psychology, including research design, data analysis, and interpretation.*

*LEARNING GOAL 2: CRITICAL THINKING SKILLS IN PSYCHOLOGY: Respect and use critical and creative thinking, skeptical inquiry, and, when possible, the scientific approach to solve problems related to behavior and mental processes.*

*LEARNING GOAL 3: APPLICATION OF PSYCHOLOGY: Understand and apply psychological principles to personal, social, and organizational issues*

## **ATTENDANCE**

Please refer to <http://www.dixie.edu/humanres/policy/sec5/523.html> for a full explanation for the DSC Attendance Policy. Regular and prompt attendance in classes and laboratory sessions is expected of every Dixie State College student. An absence does not excuse a student from completing work missed. It is the student's responsibility to find out which assignments are missed during an absence.

Students who must miss class because of a college-sanctioned activity, such as an athletic event, club activity, class assignment, or other approved event, are responsible to assuring that their instructors have been notified and for completing any missed assignments. By the second day of class, students with recurring absences must provide each instructor written notification from the appropriate department that includes a schedule of competition, the names of those students on specific teams likely to travel, and the dates and approximate times of departure and return to campus. So that student participation in travel can be verified, the appropriate department will be responsible for informing individual faculty of changes to team rosters and travel schedules throughout the semester. One week prior to an absence, the student will meet with the instructor to arrange a reasonable accommodation, if feasible, to allow the students to complete any missed coursework and/or exams. The instructor may require the student to submit work prior to the due date if the student will be absent. It is the student's responsibility to complete the student absence schedule with the instructor and abide by it. Students with recurring or frequent absences from a course are required to check their schedules against the course syllabus and provide a list of expected absences for the semester by the second day of class. Upon reviewing the list, the instructor may determine that the absences will interfere with the student's ability to succeed in the course. If so, the instructor will recommend that the student seek an alternative.

## **CLASS POLICIES AND DISCIPLINE POLICY**

1. Turn off/silence any cell phones. Phones ringing/vibrating can be very distracting for everyone.
2. Come to class on time. It can be distracting to have students coming/going at different times. Make an effort to either come early or on time to class. Also, please make every effort to stay for the entire class period. If arriving/leaving on time is going to be an issue, please contact me so we can resolve this.
3. Read text before class session. This will only help you to better understand the material. If you read the text before class you will be prepared to ask questions during lecture.
4. Check CANVAS and dmail regularly.
5. This course is designed so that you spend six to nine hours per week between in-class participation and out of class activities.
6. This course will operate on the philosophy that active engagement with material fosters quality learning. There will be ample opportunity for in-class activities and discussion, both in small groups

and with the entire class. Students are expected to read assigned text prior to class and be prepared to participate in class.

7. Students are expected to coordinate in-class small group work effectively.

8. Each student will have courtesy and respectful behavior towards each student and the instructor. Students will refrain from making harassing and discriminating comments in the classroom.

Students will be respectful and open-minded about diverse viewpoints expressed in the classroom.

Teachers at Dixie State College have the right to manage the classroom environment to ensure a good learning climate. Toward this end, teachers (or college security) may dismiss and remove

disruptive students from individual class activities. If a student's behavior continues to disrupt class

activities, the teacher may dismiss and cause the removal of disruptive students from their course.

Please refer to the DSC Academic Discipline policy for more information:

<http://www.dixie.edu/humanres/policy/sec3/334.html> or

[www.dixie.edu/humanres/policy/sec5/533.html](http://www.dixie.edu/humanres/policy/sec5/533.html)

[www.dixie.edu/humanres/policy/sec5/533.html](http://www.dixie.edu/humanres/policy/sec5/533.html)

Faculty Rights and Responsibilities:

- To establish and implement academic and behavioral standards for the classroom
- To clearly outline expectations, verbally and in syllabi
- To address any inappropriate behavior
- To involve other offices (Dean of Students, Campus Police, etc.) when circumstances arise
- To make a determination regarding possible responses and outcomes for inappropriate behavior within the faculty member's class

What is disruptive behavior?

Disruptive behavior may best be defined as any behavior that inhibits an instructor's ability to conduct class, or behavior that limits another student's ability to benefit from instruction – including

conduct, speech, or activity that interferes with the learning activities of other students. Some

examples of disruptive behavior may include:

- Physical violence, verbal abuse, or harassment
- Sleeping in class
- Not facing forward in the class
- Putting your feet up on chairs and desks
- Intoxication or illegal drug use
- Use of profanity
- Having side conversations with classmates
- Failing to respect others when expressing their own viewpoints
- Talking while the instructor or another student is talking
- Arriving late to class
- Constant questions or interruptions that interfere with classroom presentation

Students engaging in disruptive behavior will be asked to immediately leave the classroom. If the

student does not voluntarily leave the classroom, campus security can be called at DSC Campus

Police immediately by calling 437-619-1144 or 435-619-1145.

If you believe that a student in the class is interrupting your ability to learn please notify the instructor as soon as possible so that the issue can be remedied.

9. You will receive grades for completed assignments within 1 week (7 days) of your submission. I

will respond to your emails within 24-48 hours (I am usually able to respond within 12-24 hours).

However, there is a high probability I will not respond to emails on Saturday and Sunday. Thus, if

you email me on Friday at 5pm, there is a high likelihood that I will not respond to you until

Monday.

## EARNING POINTS IN THIS COURSE

### **Homework Assignments (2 points each, you can drop one assignment):**

You will be assigned homework for each chapter. You are graded on completion, not for correctness. All odd-numbered questions have answers in the back of the book. It is your best interest to understand and genuinely do your homework since variations of many of the Exam questions will come from these homework assignments.

### **Lab Exercises (8 points each; you can drop one lab):**

There are several lab exercises you will complete. The exercises are due at the end of lab. Late exercises will be deducted 10% if turned in late the same day of class. Then, the late penalty will of 20% will be deducted for each calendar day the assignment is late.

**Exams (50 points each; 3 exams).** Three exams will be administered during the course. Tests may include True-False, Multiple Choice format questions, short answer questions, as well as computations. These tests will be relevant to what is covered in lecture, lab, and the text. You can contact the instructor during office hours to discuss test grading. Exam questions will come from four sources: (1) “A Quick Review” from the end of each chapter, (2) assigned homework questions, (3) concepts covered in lab, (4) lecture, and (5) defining “Key Terms”.

### **Extra Credit**

There may be an opportunity for extra credit, up to 10 points. The instructor will present any opportunities for extra credit to the entire class. The instructor will not provide extra credit opportunities on an individual basis.

## **LATE WORK AND MAKE-UP POLICY**

Exams, cannot be made up or be submitted at a date/time past the assigned due date. Please arrange your schedule so that you are able to complete all course requirements on the designated time. If you know you will be out of class, you need to make arrangements to turn in your assignments or take your exam before the scheduled due date. Any homework assignments that are submitted late will be penalized 20% for each calendar day it is late.

### **Percentage (%) Letter Grade**

100-93 = A	76-73 = C
92-90 = A-	72-70 = C-
89-87 = B+	69-67 = D+
86-83 = B	66-63 = D
82-80 = B-	62-60 = D-
79-77 = C+	Less than 60 = F

## **HOW TO SUCCEED IN THIS COURSE**

Come to class, do the assignments, study, read the text, review notes, and do the review activities located at the back of chapters, ask questions, and be involved in the class.

TENTATIVE COURSE SCHEDULE\*

Week	Date(s)	Topic	Homework Due
<b>1</b>	<b>1/6/14</b>	Syllabus	Ch 1 Exercises: 4, 5, 7, 12, 13, 14, 17
	<b>1/8/14</b>	Ch 1	
	<b>1/10/14</b>	Ch 1	
	<b>LAB</b>	Put SPSS on lab computers.	
<b>2</b>	<b>1/13/14</b>	Ch 2	Ch 2 Exercises: 1, 7, 9, 12, 15a, 15b, 17, 23
	<b>1/15/14</b>	Ch 2	
	<b>1/17/14</b>	Ch 2	
	<b>LAB</b>	Cleaning data on SPSS	
<b>3</b>	<b>1/20/14</b>	NO SCHOOL	Ch 3 Exercises: 1a, 1b, 5, 19, 23,
	<b>1/22/14</b>	Ch 3	
	<b>1/24/14</b>	Ch 3	
	<b>LAB</b>	Making Figures APA style	
<b>4</b>	<b>1/27/14</b>	Ch 4	Ch 4 Exercises: 1. 5. 15. 17 Ch 5 Exercises: 1, 21
	<b>1/29/14</b>	Ch 4/5	
	<b>1/31/14</b>	Ch 5	
	<b>LAB</b>	Central Tendency and Variability	
<b>5</b>	<b>2/3/14</b>	<b>EXAM #1</b>	Ch 6 Exercises: 1, 3, 4, 7, 9, 11, 17
	<b>2/5/14</b>	Ch 6	
	<b>2/7/14</b>	Ch 6	

	<b>LAB</b>	Normal Distribution	
<b>6</b>	<b>2/10/14</b>	Ch 8	Ch 8 Exercises: 2, 3, 4, 5, 6, 9, 10, 11, 13, 21
	<b>2/12/14</b>	Ch 8	
	<b>2/14/14</b>	Ch 8	
	<b>LAB</b>	Hypothesis Testing	
<b>7</b>	<b>2/17/14</b>	NO SCHOOL	Ch 9 Exercises: 9.1 and also note
	<b>2/19/14</b>	Ch 9	
	<b>2/21/14</b>	Ch 9	
	<b>LAB</b>	Correlation	
<b>8</b>	<b>2/24/14</b>	Intro to Psychometrics (not in book)	
	<b>2/26/14</b>	Intro to Psychometrics (not in book)	
	<b>2/28/14</b>	Intro to Psychometrics (not in book)	
	<b>LAB</b>	Psychometrics	
<b>9</b>	<b>3/3/14</b>	Ch 10	Ch 10 Exercises: 9, 11, 27a,c (look at book to get b so that you can use it to answer c)
	<b>3/5/14</b>	Ch 10	
	<b>3/7/14</b>	Ch 10	
	<b>LAB</b>	Regression	

<b>10</b>	<b>3/17/14</b>	Ch 11	Ch 11 Exercises: 1, 2, 3
	<b>3/19/14</b>	Ch 11	
	<b>3/21/14</b>	Ch 11	
	<b>LAB</b>	Multiple Regression	
<b>11</b>	<b>3/24/14</b>	<b>Exam #2</b>	
	<b>3/26/14</b>	Ch 12	
	<b>3/28/14</b>	Ch 12	
	<b>LAB</b>	One sample <i>t</i> -test	
<b>12</b>	<b>3/31/14</b>	Ch 13	
	<b>4/2/14</b>	Ch 13	
	<b>4/4/14</b>	Ch 13	
	<b>LAB</b>	Related Samples <i>t</i> -test	
<b>14</b>	<b>4/7/14</b>	Ch 14	Ch 14 Exercises: 2 (look at answer in back of book for problem1 so you can answers this question), 5, 6, 7, 11
	<b>4/9/14</b>	Ch 14	
	<b>4/11/14</b>	NO CLASS: Dr. Olson at conference. Look on Canvas for assignment.	
	<b>LAB</b>	Independent Sample <i>t</i> -test	
<b>14</b>	<b>4/14/14</b>	Ch 16	<b>TBA</b>
	<b>4/16/14</b>	Ch 16	
	<b>4/18/14</b>	Ch 16	
	<b>LAB</b>	ANOVA	

15	4/21/14	Choosing the right test...pulling it together	
	4/23/14	Choosing the right test...pulling it together	
	LAB	Choosing the right test...pulling it together	
	TBA	FINAL: Exam 3	

\* SCHEDULED DATES ARE TENTATIVE AND SUBJECT TO CHANGE AT THE DISCRETION OF THE INSTRUCTOR

### DISABILITY RESOURCE CENTER

Students with medical, psychological, learning or other disabilities desiring reasonable academic adjustments, accommodations, or auxiliary aids to be successful in their program of study should contact the Disability Resource Center within the first two weeks of the beginning of classes for eligibility determination. Proper documentation of impairment is required in order to receive services. DRC is located on the ground floor of the Financial Aid Office. You may call 652-7516 to schedule appointment for further information regarding the process to receive accommodations. DRC Coordinator determines eligibility for and authorizes the provision of services.

Contact the center for eligibility determination. Proper documentation of impairment is required in order to receive services or accommodations. DRC is located at the ground floor of the Financial Aid Office. Visit or call 652-7516 to schedule an appointment to discuss the process. The DRC Coordinator determines eligibility for and authorizes the provision of services.

### TUTORING AND WRITING CENTERS

The Dixie State College of Utah Tutoring Center is located in the Browning Resource Center and is **free** for all registered Dixie State students. Tutors are available to assist you in clarifying concepts and class material, and in improving your study skills. The center also offers assistant with writing. Tutoring Center hours are Monday-Thursday from 9:00 am to 8:00 pm, and on Fridays from 9:00 am to 5:00 pm. Tutoring: <http://www.dixie.edu/tutoring/index.php> Writing Lab: <http://dsc.dixie.edu/owl/>

### LIBRARY

Please use the library! It is a great resource and the staff can help you find the materials you need. <http://library.dixie.edu/>

### ACADEMIC INTEGRITY POLICY

1. All work done for this course is to be your own, with the exception of the Group Projects.
2. Cheating/plagiarism is forbidden. All incidents will be reported to the Department Chair and/or Academic Dean.
3. All students are expected to have read and understand the current issue of the student handbook, published by Student Services. The handbook includes all student responsibilities, student rights, intellectual property policy, information regarding procedures, and appropriate student behavior.
4. Cheating of any kind may be punishable by one or more of the following: a) Receiving a failing grade on the specific assignment where dishonesty was observed; b) Receiving a failing grade in the course; c) Immediate dismissal from this course; and d) Referral to the Academic Affairs



Committee which may take actions such as reprimands, placing on probation, suspension, or removal from Dixie State College of Utah.

For further information regarding student responsibilities related to academic integrity, please refer to Section 5.33.5 of the DSC policy, which can be viewed at <http://www.dixie.edu/humanres/policy/sec5/533.html>.

### TESTING CENTER

You may be required to take Tests, except the Final Exam, in the testing center. Please contact the Testing Center to learn about their hours of operations and testing procedures. Testing Center - <http://dixie.edu/testing>

### EMAIL

You are required to frequently check your Dmail account. Important class and college information will be sent to your dmail account, including DSC bills, financial aid/scholarship notices, notices of cancelled classes, reminders of important dates and deadlines, and other information critical to your success at DSC and in your courses. If you don't know how to access your dmail account, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail" from the left column. To locate your dmail username and password, go to [www.dixie.edu](http://www.dixie.edu), and click on "Log in to student

### OTHER IMPORTANT DATES/DEADLINES

Jan 2	Spring 2014 Late application penalty begins
Jan 6	Classwork Starts
Jan 9	Last Day to Waitlist
Jan 10	Last Day to Add Without Signature
Jan 15	Drop/Audit Fee Begins (\$10 per class)
Jan 15	Residency Application Deadline
Jan 20	Martin Luther King Jr. Day
Jan 21	\$50 Late Registration/Payment Fee
Jan 27	Pell Grant Census
Jan 27	Last Day for Refund
Jan 27	Last Day to drop without receiving a "W" grade
Jan 29	Courses dropped for non-payment
Jan 31	Last Day to Add/Audit
Jan 31	Associate's degree Graduation Deadline - Spring 2014
Feb 17	President's Day
Feb 24	Mid-Term Grades Due
Feb 28	Last Day to Drop Individual Class
Feb 28	Bachelor's degree Graduation Deadline - Summer 2014
Mar 10-14	Spring Break
Mar 17	Fall 2014 Class schedule available online
Mar 17	Summer Registration open to Seniors (90+ credits)
Mar 18	Summer Registration open to Juniors

	(60+ credits)
Mar 19	Summer Registration open to Sophomores (30+ credits)
Mar 20	Summer Registration open to all students
Mar 28	Last Day for Complete Withdrawal
Apr 1	Bachelor's degree Graduation Deadline - Fall 2014
Apr 7	Fall Registration open to Seniors (90+ credits)
Apr 8	Fall Registration open to Juniors (60+ credits)
Apr 9	Fall Registration open to Sophomores (30+ credits)
Apr 10	Fall Registration open to all students
Apr 23	Classwork Ends
Apr 24	Reading Day
Apr 25	Final Exams
Apr 28-30, May 1	Final Exams
May 1	Associate's degree Graduation Deadline - Summer 2014
May 2	Commencement

\*\*\*To learn more about syllabi at Dixie State College, refer to: <http://new.dixie.edu/reg/faculty/?page=Syllabus>

