PSYC 2443 **Research Design and Statistics I** **Fall 2016**

Lecture:
Instructor: **Dr. Madeline Rex-Lear**
Class room: **118 Life Science (Lecture); 318 LS (Lab)**
Class hours: **Mon-Wednesday 3pm-4.20pm**
Office hours: **Wed 10am-12pm or by appointment**
Office: **LS 408**
Contact: **rexlear@uta.edu**

Lab Coordinator: Cheryl Abellanoza
Email: cheryl.abellanoza@mavs.uta.edu
Office ERB 302
Office hours: Mon 2-3 or by appt.

Your Lab Teaching Assistant
Instructor:
Classroom:
Email:
Office & hours

Tutor: **Ryan Gertner**
Office: LS 537
Contact: ryan.gertner@mavs.uta.edu

Lab: You must be registered in lecture (PSYC 2443-001) and lab section (PSYC 2443-002, 003, 004, 005, 006) concurrently. Please see the **lab schedule** for further information.

Course description: PSYC 2443. RESEARCH DESIGN AND STATISTICS I (3-2) 4 hours credit. Theoretical and practical approaches to research methodology, statistical analyses and reporting of research. Prerequisites: PSYC 1315, MATH 1302 (or equivalent), ENGL 1302 and completion of the computer competency requirement.

A note on prerequisites: To perform well in this class, you will need to have fulfilled your computer competency requirements as well as your Algebra and English Critical Thinking, Reading and Writing courses. PSYC 2443 is writing and information-intensive.

Course goals: This course consists of learning a variety of methods and procedures commonly used to conduct psychological research, analyzing the data collected in such research, and communicating the research results to the scientific community.

Course Information

Required texts and course materials:

1) Gravetter, F.J., & Wallnau, L.B. (2014) *Essentials of Statistics for the Behavioral Sciences (8th ed.).* Belmont, CA: Wadsworth. Cengage. **ISBN: 9781133956570**

2) McBride, D, M. (2016). *The Process of Research in Psychology (3rd ed.).* Thousand Oaks, CA: Sage. **ISBN: 9781483347608**

3) Lab Manual: Research Design & Statistics 2443. (2016). Champaign, IL: Stipes. **ISBN: 9781609045449** (only available at UTA).

4) *Publication Manual of the American Psychological Association* (6th ed.). Washington, D.C. APA. **ISBN: 9781433805615**

- A calculator with statistical functions (programmable calculators and cellphones will not be permitted)
- A 3inch, 3-ring binder which will serve as a portfolio for your lab manual
- Three Blue Scantrons for your lecture exams Version #4521

NOTE: This course will be computer/internet intensive. However, you do not need to own a computer to participate effectively in the class. However, you will need to access and use the computers available to you on campus on routine bases that have SPSS access.

Required journal articles: Articles will be available on electronic reserve through BlackBoard.

Optional resources: See www.apastyle.org (NOTE: the APA Publication Manual will be used for all grading)
See the publisher Web sites at: sagepub.com/mcbride2e/ and www.cengagebrain.com

Learning objectives:

Learning Objectives for Module I. At the end of this module, students should be able to:

(1) Describe areas of psychological research and the differences between basic and applied research; research conducted in naturalistic and laboratory settings
(2) Identify and compare descriptive and predictive methods as well as the experimental method
(3) Explain the following concepts: scales of measurement, reliability, validity, operational definitions
(4) Use library resources to locate and confirm information, and understand APA writing requirements.
(5) Compute standard scores and measures of central tendency and variation

Learning Objectives for Module 2. At the end of this module, students should be able to:

(1) Identify various distributions, organize and manage data in frequency and class interval distributions
(2) Differentiate between probability and nonprobability sampling and the various subtypes of sampling
(3) Use Excel to graph data and construct tables
(4) Explain hypothesis testing and how Type I and Type II errors are related
(5) Explain what statistical power is and how to make statistical tests more powerful

Learning Objectives for Module 3. At the end of this module, students should be able to:

(1) Discuss the strengths of correlations and interpret scatterplots
(2) Calculate correlation coefficients and coefficient of determination and the relationship to prediction
(3) Differentiate between parametric and nonparametric statistics
(4) Calculate and interpret Chi-square tests
(5) Use SPSS software to test for statistical significance
(6) Describe ethical standards for research using human participants and animal subjects

Course structure: The course is divided into 3 modules: Module 1 spans weeks 1 through 5; Module 2, weeks 6-9; and Module 3, weeks 10-14. Exams (lecture and lab) are given at the end of each module. There is no comprehensive final exam. This is a Blackboard assisted course so you will need to be proficient in the use of Blackboard to perform well. This is an intense course with multiple projects both in and out of the class. **You must be prepared to take on an intensive course load in order to do well in this class.**

Assignments and exams:

1) Lecture: In-class exercises may be given but will not necessarily count toward final grade.
The lecture grade will be based on three exams adding up to 400 points. Each exam will be broken into a multiple choice part given in the lecture (100 points) plus the short answer/practical (statistical exercise) part given in the lab (30 points). Exam questions will be drawn from required reading, lecture material, and class activities.
If you arrive late to an exam, AFTER any class member has completed the exam and left the room you will NOT be permitted to take your exam. Please don't be late especially on test days.
Any make-up exams will be given at the discretion of faculty (See the **lecture schedule** for exam dates.)

2) Lab: Exercises, research papers, and other assignments will be scheduled throughout the term. Unless otherwise instructed, all assignments must be typewritten and in compliance with APA formatting. (See the **lab schedule** for further details.)

My Rules:

1. **Failure to hand in assignments on time will result in a grade of zero for that assignment.**
2. **Any work presented using previous assignments from other classes/projects/persons is considered academic dishonesty (See Academic dishonesty section above) and will not be accepted as gradable material and will receive a grade of "F".**
   If you are caught plagiarizing, you will receive a grade of "F" for that piece of work and potentially for the entire course.
   If in doubt, use appropriate resources to assist you (e.g., librarian, writing center, TA, APA manual) before you hand in an assignment.
   Similarly, if you are caught cheating on an exam, you will receive a grade of "F" for the entire course and will be reported.

Attendance:
At The University of Texas at Arlington, taking attendance is not required. Rather, each faculty member is free to develop his or her own methods of evaluating students' academic performance, which includes establishing course-specific policies on attendance. As the instructor of this section I have determined:
Lecture: ***Regular attendance is mandatory*** *and will be taken on all non-test days starting on WEEK 3 – it counts for* ***10*** *points of your grade*. Absentees will not be provided with lecture notes, outlines or other materials from classes missed. No make-up exam will be given unless documentation is received for a University-approved absence (Absences that generally meet faculty standards include: severe illness; death in the immediate family; court appearances) and are at the discretion of faculty approval.

Lab: Lab attendance is *mandatory.* The information you receive in the lab sections is necessary to aid you in writing papers and doing homework assignments. The information obtained will carry over from the first semester into the second semester.

Make-up work: For exams and homework you must make faculty and Lab TAs aware of any absence within 5 working days or you will not be permitted to make-up any missed work or exams. **THERE ARE NO MAKE-UPS FOR IN LAB ASSIGNMENTS - MISSED WORK WILL COUNT AS ZERO.**

Extra credit: Research Participation through SONA will grant up to **5** extra credit points for the lecture portion. (You may participate in additional research voluntarily). To gain these Extra Credit points you MUST be enrolled in SONA. Details are available on the psychology website at http://www.uta.edu/psychology/. Also you may not use the same experiment for SONA credits in more than one course at a time.)

Grading: You will receive one course grade for your combined performance in the lecture and laboratory. (Note: while the short answer parts of the tests are given during labs, they are part of the *lecture* grade!)

Examples of the rubrics we will use for scoring will be provided on BlackBoard.
Ten points per day (each 24 hour period) will be deducted from your final score for any project that is received late.
Be sure to check the schedule below for interim evaluation dates!

Point Distribution and Grading Policy

LECTURE POINTS		LAB POINTS		**Total possible points = 800 (+5)**		
				Letter	%	# of Points
Exam 1 (lecture)	100 Lab 30	Constructing APA Manuscript	150			
Exam 2 (lecture)	100 Lab 30	In class Lab Assignments	130	A	90 - 100 %	716-800
Exam 3 (lecture)	100 Lab 30	Homework Assignments	120	B	80 - 90 %	636-715
Attendance	10			C	70 - 80 %	556-635
Extra credit	5			D	60 - 70 %	476-555
				F	<60%	<476
Total Lecture	**400 (+5)**	**Total Lab**	**400**			

Students must receive a passing grade (a "C") in both lecture and lab (278 points out of 400 possible points or 69.5 % <u>in each section</u>) to pass the course and become eligible to enroll in upper-level courses that have 2444 as a prerequisite. Any student earning a "D" (238 -277.5 points out of 400) or "F" (<238 points out of 400) in the lecture OR in the lab will receive a "D" or "F" as the final course grade. (Please note that the last day to withdraw from this course is **November 2nd, 2016).** Students who meet the minimum requirements of 278 points in BOTH lecture and lab will have their final course grades calculated by adding their lecture and lab points together and assigning final letter grades as shown above:

(Note: while the short answer parts of the tests are given during labs, they are part of the *lecture* grade!) In **lab**, we will also be using embedded assessment techniques throughout the course for 1 major evaluation project: The remaining points from the lab portion of the grade will be based points on weekly in-class assignments and out of class homework.

NOTE: Grades are calculated from the base points allotted in the syllabus – any extra points available are included to benefit you.

<u>Important lab notes:</u>

Review: Given the "hands on" nature of instruction, Lab Attendance is crucial to your success in this course. You must attend every lab meeting. The information you receive in the lab sections is necessary to aid you in writing papers and doing homework assignments. The information obtained will carry over from the first semester into the second semester.

a. Assignments are either due online *before* lab starts, or at the beginning of the lab meeting (within the first 10 minutes of lab), (check with instructor).

b**. Failure to submit assignments /hand in on time will result in a grade of <u>zero</u> for that assignment.**

c. Project assignments are due via Blackboard on their respective due dates.

d. If your writing quality is not up to the level required for this course (i.e., the grader cannot understand what you are trying to convey in your manuscript sections) you will be required to take said section(s) to the UTA writing center for assistance (See Student Support Services listed below). The writing center will email Dr. Rex-Lear regarding your progress. Your final manuscript will not be graded if you do not attend the writing center if you are requested to do so.

e. Any work presented using previous assignments from other classes/projects is considered academic dishonesty (See Academic dishonesty section below) and will not be accepted as gradable material.

If you are caught plagiarizing, you will receive a grade of "F" for the entire course.
If in doubt, ask your TA to look at your work and the sources that you are citing from before you hand in an assignment.
Similarly, if you are caught cheating on an exam, you will receive a grade of "F" for the entire course.

Important dates: These are also listed on the UTA calendar.
August 29: First day of this class - First Labs start: W 8/31; or TR 9/1; or F 9/2
Sept 12: Census Date
Nov 2: Last day to drop - by 4pm
Dec 7: Last day of class
(Note: All work must be completed by this date or a grade of zero for incomplete work will be assigned).
Dec 12: Finals Week (Note – there are no exams for this class in Finals week)

Student Support Services: UT Arlington provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. Resources include tutoring, major-based learning centers, developmental education, advising and mentoring, personal counseling, and federally funded programs. For individualized referrals, students may visit the reception desk at University College (Ransom Hall), call the Maverick Resource Hotline at 817-272-6107, send a message to resources@uta.edu, or view the information at http://www.uta.edu/universitycollege/resources/index.php

Library information **Librarian to contact: [Psychology]** Peace Ossom Williamson (peace@uta.edu)

- You will find useful information for psychology at http://libguides.uta.edu/psychology or simply go to the library (www.uta.edu/library) and select Subject Guides and select Psychology.

- **Writing Center:** 411 Central Library, offers individual 40 minute sessions to review assignments, *Quick Hits* (5-10 minute quick answers to questions), and workshops on grammar and specific writing projects. Visit https://uta.mywconline.com/ to register and make appointments. For hours, or information about the writing workshops offered, the scheduling a classroom visit, or descriptions of the services offered to undergraduates, graduate students, and faculty members, please visit our website at http://www.uta.edu/owl/ or call (817) 272-2601.

- **The IDEAS Center (**2nd Floor of Central Library) offers **free** tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

- **Other** services can be obtained from the University. The University supports a variety of student success programs to help you: learning assistance; developmental education; advising and mentoring; admission and transition; and information about federally funded programs. Students seeking assistance with academic, personal or social problems should contact the Office of Student Success Programs at 817.272.6107 or see http://www.uta.edu/uac/studentsuccess-home/ Many students formerly enrolled in this class have found this web page to be very useful for a variety of services!

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance**. Repayment of certain types of

financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aao/fao/).

Academic Integrity: Students enrolled in this course are expected to adhere to the UT Arlington Honor Code:

I pledge, on my honor, to uphold UT Arlington's tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence.

I promise that I will submit only work that I personally create or contribute to group collaborations, and I will appropriately reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

UT Arlington faculty members may employ the Honor Code in their courses by having students acknowledge the honor code as part of an examination or requiring students to incorporate the honor code into any work submitted. Per UT System *Regents' Rule* 50101, §2.2, suspected violations of university's standards for academic integrity (including the Honor Code) will be referred to the Office of Student Conduct. Violators will be disciplined in accordance with University policy, which may result in the student's suspension or expulsion from the University. Additional information is available at https://www.uta.edu/conduct/.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents‟ Rules and Regulations, Series 50101, Section 2.2)

In addition to the university sanctions, you will fail this course if you are caught participating in any form of academic dishonesty.

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including *The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA),* and *Section 504 of the Rehabilitation Act.* All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the **Office for Students with Disabilities (OSD).** Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:
The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364.
Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671.

Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Non-Discrimination Policy: The University of Texas at Arlington does not discriminate on the basis of race, color, national origin, religion, age, gender, sexual orientation, disabilities, genetic information, and/or veteran status in its educational programs or activities it operates. For more information, visit uta.edu/eos.

Title IX Policy: The University of Texas at Arlington ("University") is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in

employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. *For information regarding Title IX, visit* www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Campus Carry: Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes as prohibited. Under the new law, openly carrying handguns is not allowed on college campuses. For more information, visit http://www.uta.edu/news/info/campus-carry/

Student Feedback Survey: At the end of each term, students enrolled in classes categorized as "lecture," "seminar," or "laboratory" shall be directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student's feedback enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington's effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit http://www.uta.edu/sfs.
This information is VERY important to me and I strongly encourage everyone to complete the survey.

Children / Unauthorized persons: No children or unauthorized persons may be brought to classes or during exams without prior instructor permission. Do not leave children unattended in university buildings and facilities.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, [please make a note of this]. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities.

Email Communications: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php.

Important information will be sent via Blackboard. With this in mind, you should either routinely log into Blackboard or forward your Blackboard messages to your e-mails. *Please send all e-mails to my faculty e-mail address rexlear@uta.edu.*

Student Evaluation of Teaching: Online evaluation forms provided by the University will be used for student course evaluation. Students will receive notification of the opportunity to complete evaluation forms via University email. I strongly encourage you to complete these evaluations, they are important, and do matter http://www.uta.edu/sfs.

Emergency Exit Procedures: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist handicapped individuals.

See following pages: Tentative Lecture and Lab Schedule is subject to change by faculty

PSYC 2443 **Research Design and Statistics I** **Fall 2016**

PSYC 244 23 SCHEDULE GRID

Lecture Schedule **Lab Schedule**

Wk	Date	Lecture Topic	Reading Assignments	Date: Write in	Lab Exercises	Assignment Due
1	M 8/29	Course overview Introduction to Research & Design	Mc Bride Ch 1 Gravetter & Wallnau pp. xiv Study Hints	W1	Using Blackboard Using the library Research Compliance IRB & IACUC & Ethical Guidelines Ch 3 Mc Bride & Journal Articles) ICA1: Research/Library (10 pts)	Complete online pretesting on Sona
	W 8/31	Ethics overview Data Collection Techniques Scientific Writing – APA Style	McBride Ch 3 McBride Ch 2 & 4 McBride pp. 165-185 & APA Manual pp. 25-59			
2	M 9/5	***Labor Day holiday—no class***		W2	Semester Project Discussion w/ rubric (Ch 8 Mc Bride Reporting Research) ICA2: APA – Title/Method (10 pts) ICA3: Plagiarism (10 pts)	Assignment #1 – Scientific thinking/ research compliance Mc Bride :Ch. 1/2/3 (10 pts) Assignment #2 – Library part 1 (10 pts)
	W 9/7	Defining Variables & Scales of Measurement	Mc Bride Ch 5 Gravetter & Wellnau Ch 1			
3	M 9/12	Frequency Distributions **Daily attendance 1pts per day (10pts) Beginning this week**	Gravetter & Wellnau Ch 2	W3	ICA4: Article Quiz (10 pts) ICA5: Frequency distributions & Central tendency (10 pts) Using Excel & SPSS: Bar graph practice	Assignment #3 – Plagiarism (10 pts) Assignment #4 – Library part 2 (10 pts)
	W 9/14	Measures of central tendency	Gravetter & Wellnau Ch 3			
4	M 9/19	Measures of variability	Gravetter & Wellnau Ch 4	W4	Understanding measures of variability ICA6: Variability and z scores (10 pts) Exam 1 Review	Assignment #5 – Frequency/ central tendency (10 pts) Assignment #6: variation and z scores (10 pts); due by end of lab
	W 9/21	*z*-scores & Types of Distributions	Gravetter & Wellnau Ch 5			
5	M 9/26	Catch up day Revisiting the Methods Section Review for Exam #1	All chapters in module 1	W5	ICA7: APA – Introduction/References (10 pts)	
	W 9/28	**Exam #1** **(part 1 = Multiple choice)**			**Exam #1** **(part 2 = word problems)**	

Wk	Date	Lecture Topic	Reading Assignments	Date: Write in	Lab Exercises	Assignment Due
6	M 10/3	Review of Exam #1 Probability	Gravetter & Wellnau Ch 6	W6	ICA8: Probability (10pts)	Manuscript #1 – Title/Method (20 pts)
	W 10/5	Probability & Samples	Gravetter & Wellnau Ch 7			
7	M 10/10	Probability & Binomial Distribution	Gravetter & Wellnau Ch 7	W7	Data collection and management Revisit Hypotheses for Correlation Experiment ICA9: Hypothesis testing (10 pts)	Assignment #7 – Probability/Sample distributions (10 pts)
	W 10/12	Hypothesis Development Logic & Steps of hypothesis testing	Gravetter & Wellnau Ch 8			
8	M 10/17	One- & two-tailed hypothesis tests Type I & II Error	Gravetter & Wellnau Ch 8	W8	Hypothesis tests and z-tests Midterm progress check ICA10: Exam 2 Review (10 pts)	Assignment #8: Hypothesis tests and z-tests (10 pts); due by end of lab
	W 10/19	Revisiting the introduction section The *z*-test Confidence Intervals	Gravetter & Wellnau Ch 8 Mc Bride Ch 7 (pp.154-155)			
9	M 10/24	Power and Effect size Review for Exam #2	Gravetter & Wellnau Ch 8 All chapters in module 2	W9	ICA11: APA – Results/Discussion (10 pts)	Confidence Intervals Extra (5pts) Manuscript #2 – Intro (30 pts)
	W 10/26	**Exam # 2** **(part 1 = Multiple choice)**			**Exam #2** **(part 2 = Word problems)**	
10	M 10/31	Review of Exam #2 Revisiting the Results & Discussion Sections	Gravetter & Wellnau Ch14	W10	ICA12: Correlations (SPSS), inter-rater reliabilities, and graphing: scatterplots (10 pts) **Manuscript project data analyses**	
	W 11/2	Correlation & Coefficient of Determination	Gravetter & Wellnau Ch14			

Wk	Date	Lecture Topic	Reading Assignments	Date write in	Lab Topic	Assignment Due
11	M 11/7	Correlation & (Prediction)	Gravetter & Wellnau Ch 8	W11	Discuss APA Abstract and key words Discuss Final Manuscript ICA13: Chi-Square Goodness of fit and Abstracts (10 pts)	Assignment #9 – Correlation & inter rater reliability (10pts) Manuscript #3 – Results/Disc (30 pts)
	W 11/9	Non parametric Testing – Chi-Square Tests -Goodness of Fit	Gravetter & Wellnau Ch 15			
12	M 11/14	Chi-Square Tests -Test of Independence-	Gravetter & Wellnau Ch 15	W12	Chi-Square Test of Independence Manuscript progress check Exam Review – How to with SPSS	Assignment #10 – Chi-Square Goodness of fit (10 pts) Assignment #11 – Chi-Square Test of Independence (10pts); **due by end of lab**
	W 11/16	Wilcoxon's Test Reliability & Validity	Mc Bride Ch 5			
13	M 11/21	Summarizing & Interpreting Data	Mc Bride Ch 7	W13	**No lab meetings this week - Happy Thanksgiving**	Manuscript #4 – Abstract, key words, Graphs, & References (20 pts); **Due WEDESDAY 11/23 11.59pm in Blackboard (NO exceptions)**
	W 11/23	Ethical guidelines revisit	McBride Ch 3			
14	M 11/28	**Review for Exam #3**	All chapters in module 3 **Attendance will be taken here**	W14		Assignment #12 – End of semester meetings (10 pts)
	W 11/30	**Exam # 3 (part 1 = Multiple choice)**			**Exam #3 (part 2 = Word Problems & SPSS)**	
15	M 12/5	Meetings Review of Exam 3		**W15**	**No lab meetings unless final meeting scheduled with TA**	**Final Manuscript (50 pts) ; Due MONDAY 12/5 11.59pm in Blackboard (NO exceptions)**
	W 12/7	Final Day for any make-up work/meetings Collect lab work				