McLennan
COMMUNITY
COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

Statistical Methods in Psychology

PSYC 2317_01

Dr. Misty Edwards

NOTE: This is a Blended/Hybrid course.

NOTE: This is a 16-week course.

COVID 19 Notice:

McLennan Community College is committed to providing you with every resource you need to reach your academic goals including your safety. We will continue to monitor the evolving situation with COVID 19 and adjust our safety guidelines to make sure we offer a safe environment for you and our faculty. Please make sure to consult your faculty and the MCC website at https://www.mclennan.edu/crisis-management/coronavirus-updates/index.html on any changes to these guidelines.

Course Description:

This course covers descriptive and inferential statistics used in psychological research and assessment. It includes measurement, characteristics of distributions; measures of central tendency and variability; transformed scores; correlation and regression; probability theory; and hypotheses testing and inference. (PSYC 2317 is included in the Psychology Field of Study.)

Prerequisites and/or Corequisites:

Prerequisites: PSYC 2301 General Psychology & MATH 1314 College Algebra

Course Notes and Instructor Recommendations:

This syllabus is a contract between the students and instructor. Please do not ask for any exceptions in policies, grading, or the granting of reprieves.

1. Success in this course requires a commitment to two academic skills: following directions (e.g. due dates) and deep learning. Expectations regarding student performance are available on the syllabus and throughout Brightspace. **Please read all information carefully**.
2. **Attend class**
3. **Please set up and check your student email**. If you email me and I do not reply, retry with your student account. You may contact tech support at 299-8077 if you need email access assistance.
4. **Check Brightspace and student email daily**.
5. You must be willing to practice, practice, practice! This is the only way to learn statistics.
6. You must be disciplined to be in attendance and ready to work – you must be disciplined to work on this class every day.
7. Follow directions: adhere to posted due dates, required homework format, submission instructions, etc.
8. This class is very complex and will require a lot of work. Be ready to work hard, read a lot, write a lot of notes, and practice exercises in and out of class. This is not an "easy A" course. Although it can be intense, previous students often indicated their experience in the class was positive.

Previous grades, professors, work, etc. bears no importance to the current course. Every course is different, and every professor employs academic practices that may be different from the previous one.

Instructor Information:

Instructor Name: Dr. Misty Edwards
MCC Email: medwards@mclennan.edu
Office Phone Number: 254-299-8967
Office Location: MAC 329
Office/Teacher Conference Hours:

- Mon and Wed: 12:45 to 2:00
- Zoom or phone meetings by request

Required Text & Materials:

Textbook

Gravetter, F.J. & Wallnau, L. B. (2017). *Statistics for the Behavioral Sciences* (10th ed.). Boston, MA: Cengage Learning. (ISBN: 978-1-305-50491-2)

Calculator

You will need a small calculator for in-class math work during lectures.

Statistical Software Download

Title: Jamovi
Location: Click here to go to download page (select the most current version)

Homework upload app/software

Students will need to make arrangements for online submission of handwritten homework (e.g., a printer scanner or doc scanner, etc.). I have had students take pics with cell phones, but it is not optimal for grading and providing feedback (there are apps that will convert a pic to a pdf – this will work just fine)

MCC Bookstore Website: http://www.mclennan.edu/bookstore/

Methods of Teaching and Learning:

This class will include the use of lectures delivered face-to-face, written calculation homework assignments, in-class testing, and online statistical labs.

Upon successful completion of this course, students will:

1. Compute and interpret empirical and theoretical probabilities.
2. Define and explain the characteristics of data based on their reliability, validity, and scales of measurement.
3. Interpret visual representations of data, such as graphs and tables.

4. Compute and interpret descriptive statistics, such as mean, median, and mode; standard deviation and range; and transformed scores.
5. Compute and interpret inferential statistics and tests, such as z test, t test, and ANOVA.
6. Calculate, evaluate, and interpret simple linear correlation/regression.
7. Construct and interpret confidence intervals.
8. Examine, analyze, and compare various sampling distributions.
9. Formulate, perform, and interpret hypotheses tests.
10. Identify the appropriate statistical analyses for given research problems, questions, hypotheses, and data sets.
11. Apply statistical knowledge to the interpretation of psychological research.
12. Explain features and purpose of statistical software packages.

Course Outline or Schedule (and related Learning Outcomes):

Weeks 1-3: Intro, central tendency, and variance/standard deviation

Weeks 4-8: Z-scores, probability, distribution of sample means, and hypothesis tests

Weeks 9 – 12: T-tests, estimation, and confidence intervals

Weeks 13 – 16: ANOVA, correlation, regression, and chi-square tests

Please note this is subject to change. Students will be notified of changes in Brightspace.

Course Grading Information:

Lecture Homework Assignments

You will be assigned various homework assignments in the lecture throughout the semester on which each you will demonstrate a conceptual/mathematical understanding of each statistic and its use. Adherence to submission formatting requirements and on-time turn-ins are expected (see more under behavioral expectations and conduct policy)
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Lecture Exams

Lecture exams will be completed in Brightspace. Each exam covers all the material in the readings and lectures since the previous exam. The exams will be a combination of true/false, multiple choice, matching, and problem solving. There will be four exams worth 100 points each.

Lab Work

Lab Exercises

In the lecture portion of the class, you will learn how to do statistics by hand. In the lab portion, you will learn how to run and interpret those statistics using the Jamovi Software. When we do these analyses, I will ask you questions about your data that you will be expected to turn in through Brightspace.

Lab Exam

This is a cumulative lab exam with the format comparable to the lab exercises.
This final is open note – so SAVE YOUR EXERCISES!

Grade Weights Summary
Lecture Homework: 30%
Lecture Exams: 30%
Lab: Total of 40%
    Lab Exercises: 30%
    Lab Final: 70%

This course will adhere to the following grading scale:
90-100 = A
80-89 = B
70-79 = C
60-69 = D
≤ 59 = F

Grade Disputes
Other than the final course grade, students have 72 hours to challenge or revisit previous a grade on any assignments/exams in the course. Due to the Family Education Rights and Privacy Act, I am prevented from discussing student grades with parents/guardians unless a waiver has been signed. This is also one reason why I only respond to emails from MCC student accounts.

Academic Integrity
Unless otherwise specified, in this class, a student has **cheated** if they:

- Use **any** outside sources or copies from another student on any coursework (e.g., quizlet, google, another person, etc.)
- Collaborates with other students on work outside of class
- Photographs/copies any of the assignments, quiz/exam questions for any reason
- Shares any of the homework, quiz/exam questions with anyone other than the professor, for any reason
- Students in violation of this policy will receive an F in the course.

Late Work, Attendance, and Make Up Work Policies:
Attendance

- Attendance is taken every day
- **ALL** absences count regardless of whether or not documentation can be provided
- At 7 absences you're automatically dropped from the course
- Accumulation of 7 absences after the 60% drop date will result in an F in the course unless extenuating circumstances warrant a W – this will be granted at the professor's discretion

Click Here for the MCC Attendance/Absences Policy
(https://www.mclennan.edu/highlander-guide/policies.html)
Click on the link above for the college policies on attendance and absences. Your instructor may have additional guidelines specific to this course.

Making up missed assignments

- Will be reviewed on a case-by-case basis. There is a point deduction for late homework, so that option may be utilized instead of full-point makeup options.

Missed Exams

- Final Lab exam: you can't miss this – it's how I know you're ready to go on to research methods.
- Lecture Exams:
  - Not automatically offered (i.e., only in extreme cases)
  - Make-up Exams: Automatic 10 point deduction
  - Don't use this policy to fall back on; taking a make-up exam is a bad idea and should only be done in rare circumstances (e.g., verifiable hospitalization)

Backup Plan for Technology:

- In the event MCC's technology systems are down, you will be contacted/notified through your MCC student email address. Please note that all assignments and activities will be due on the date specified – extensions are not offered for individual technical issues.

Dealing with Technical Difficulties: Brightspace/MCC

- Phone number: 254-299-8077
- E-mail: helpdesk@mclennan.edu

Student Behavioral Expectations or Conduct Policy:

If a student chooses to violate these expectations, I reserve the right to publicly ask that the behavior be changed and/or that the student leave the classroom. Repeat offenders may be permanently removed from the class with either an F or a W for their final grade.

The great majority of college students understand the need for civility toward others. Most students routinely exhibit such behavior and expect their classrooms to be free from unwanted distractions. So please be assured that significant or chronic disruptive behaviors will not be tolerated in this class. (For example: abusive language, eating, sleeping, chatting, cell phone use, bringing children or other guests, packing up backpacks before class is over, etc.) If you have a medical problem or other special need, please talk with me privately. If you have a special need to be available by phone, please discuss it with me.

More on Attendance - Entering and Exiting the Classroom During Class Time (not permitted):

I will be *slightly* flexible on forgiving occasional tardiness to class. Remember: If someone can be consistently late to class, they can consistently be on time. If you must enter the classroom late, do not walk in front of the professor or presentation. If tardiness becomes a problem, I reserve the right to implement a locked door policy. If a locked door policy is in effect, you may not re-enter the classroom if you have stepped out.

If you need to leave early, you should discuss this with me prior to the start of class. Otherwise, you will be counted absent for the entire class period.

Turning in Homework and Exams in Brightspace

Students are responsible for uploading their completed work ensuring that it meets the following criteria:

1. Be neat; answers are easy to identify
2. Page images are of good quality (e.g., directly over the paper for a straight and full image
3. Pages numbered if multiple pages included; pages uploaded in order
4. You must show all work – you will need to show me work by hand.
5. All tables and graphs must be done by hand, no computer outputs.

Recording of Lectures (need permission):

Students can record lectures after written permission has been given by the professor.

Cell Phone Use (silence and put away):

Texting during a lecture is akin to texting during a one-on-one conversation with your professor; in short, it's disrespectful. During lectures, phones should be put on silence or vibrate. During exams, they should be silenced. Cell phones may not be used to take notes

Instructional Uses of Email:

To promote effective email communication, students should:

- Use MCC email to send email to professor
- Indicate email topic in the "Subject" line of email and include proper language, a greeting, closure, and detailed description of the question or concern. I do not respond to emails with questions that do not adhere to this format and/or can be answered by referring to the syllabus.
- PLEASE BE CAREFUL!!!! If you are upset about a grade or an assignment, etc., your emotions may result in your message to me sounding terse and rude (even if that is not what you intended). Please re-read any messages before sending.

An example of an inappropriate message to a professor would be one like this:

hey i didn't see a grade for my assignment and so can u tell me my grade? 2cute4u@bbd.com

An appropriate message: Dear Professor Edwards, I finished and submitted my assignment on memory. I was concerned that I might not have submitted it right, so I was wondering if you could check to make sure it is there. Thanks! Jane Smith

- Email on Mobile Devices:
  - The College recommends that you set up your mobile device to receive McLennan emails.

- Forwarding Emails:
  - You may forward the emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may become lost or placed in junk or spam filters.

MCC Athlete/Club Member

Students who choose to participate in extra-curricular activities must be responsible and assertive with their coursework. While I respect situations that members may face with travel schedules, I treat them as I do all others enrolled in the course. Each athlete or student member MUST provide documentation of status and a copy of a travel schedule (if it will conflict with class schedule) within the first week of class. I expect these students to be proactive (not reactive) in managing coursework that conflicts with travel (i.e., look and plan ahead). I also need at least one day notice prior to signing grade reports or I do not sign them.

McLennan COMMUNITY COLLEGE

ACADEMIC RESOURCES/POLICIES

Accommodations/ADA Statement:
Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. For additional information, please visit www.mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:

disabilities@mclennan.edu
254-299-8122
Room 319, Student Services Center

Title IX:
We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix@mclennan.edu or by calling Dr. Drew Canham (Chief of Staff for Diversity, Equity & Inclusion/Title IX) at (254) 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC at (254) 299-8210. The MCC Student Counseling Center is a confidential resource for students. Any student or employee may report sexual harassment anonymously by visiting http://www.lighthouse-services.com/mclennan/.

Go to McLennan's Title IX webpage at www.mclennan.edu/titleix/. It contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence, or domestic violence.

Student Support/Resources:
MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at http://www.mclennan.edu/campus-resource-guide/

College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources or want to explore strategies for balancing life and school, we encourage you to contact a Success Coach by calling (254) 299-8226 or emailing SuccessCoach@mclennan.edu. Students may visit the Completion Center Monday-Friday from 8 a.m.-5 p.m. to schedule a meeting with a Success Coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) provides free food by appointment to students, faculty and staff based on household size. Text (254) 870-7573 to schedule a pantry appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

MCC Foundation Emergency Grant Fund:
Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html to find out more about the emergency grant. The application can be found at https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf.

MCC Academic Integrity Statement:
Go to www.mclennan.edu/academic-integrity for information about academic integrity, dishonesty, and cheating.

Minimum System Requirements to Utilize MCC's D2L|Brightspace:
Go to https://www.mclennan.edu/center-for-teaching-and-learning/Faculty-and-Staff-Commons/requirements.html for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

Minimum Technical Skills:
Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

Backup Plan for Technology:
In the event MCC's technology systems are down, you will be notified via your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

Email Policy:
McLennan Community College would like to remind you of the policy (http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

Instructional Uses of Email:
Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with their students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:
The College recommends that you set up your mobile device to receive McLennan emails. If you need assistance with set-up, you may email Helpdesk@mclennan.edu for help.

Forwarding Emails:
You may forward emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may be lost or placed in junk or spam filters.

Disclaimer:
The resources and policies listed above are merely for informational purposes and are subject to change without notice or obligation. The College reserves the right to change policies and other requirements in compliance with State and Federal laws. The provisions of this document do not constitute a contract.