PSY 305.01W Statistics and Research Design II
COURSE SYLLABUS: Summer II 2025

INSTRUCTOR INFORMATION

Instructor: Maria A. Carlson, Ph.D.

Office Location: Binnion Hall rm 205
Office Hours: 1:00pm to 3:30pm Tues. & Thurs. Or by appointment By appointment only

University Email Address: maria.carlson@etamu.edu

Office Phone: 903 – 886 -5200

Preferred Form of Communication: email
Communication Response Time: 24 – 48 hrs

Lab Instructor: Zane Brand
Office Location: Binnion 208B
Office Hours: By appointment only.
University Email Address: Zane.Brand@etamu.edu
Preferred Form of Communication: email
Communication Response Time: 24 – 48 hrs

COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required:
Nestor & Schutt, Research Methods in Psychology (3rd) ISBN: 9781544323770
Howell, Fundamental Statistics for the behavioral sciences (9th) ISBN: 9781305652972

The *syllabus/schedule are subject to change.*

Course Description

This course is the second part of a two-part series on statistics and research methods. This course is intended to introduce you to the basic and most common methods of collecting psychological data. We will cover t-tests, ANOVA, and correlations. Special attention will be given to writing in the style of the American Psychological Association.

The lab allows for additional time to discuss the materials covered in lecture and to work on applying what you have learned in lecture through developing a research paper. This research paper will be a hypothetical replication study. This project is also broken up into two semesters. This semester you will write a results and discussion section. Each week in lab will involve working on a particular portion of your research paper or doing an activity involving SPSS (a statistical analysis program). All of this will culminate in an APA style research paper.

COURSE REQUIREMENTS

Minimal Technical Skills Needed

Using the learning management system (D2L), searching the Internet for texts, using Library resources.

Instructional Methods

This is an online course with a lab, which is <u>not</u> to be interpreted as self-paced. Rather, you are required to log on regularly (preferably every day) in order to succeed. You may consume the material at a more rapid pace than set by the below schedule, but assignments and exams will still take place according to the schedule. Exams will be open for 1-2 days, and if you are unable to complete the exam in this timeframe, you must contact me <u>ahead of time</u> to re-schedule.

The time and effort required for this course is equivalent for any upper-level undergraduate course that you could take face-to-face. A high level of participation and effort will be necessary to succeed.

Student Responsibilities or Tips for Success in the Course

Questions about Grades
Any questions about a grade for a particular assignment or exam should be brought to the professor's attention within one week of the grades for that assignment or exam being posted.

Throughout our course, we will learn the science of how to learn and practice them. The following are some basics.
1. Check and read class emails promptly for announcements, updates, clarifications, etc.

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2. Take notes and participating in lectures, read the assigned parts of the textbook to check if your listening comprehension matches with the textbook descriptions, and fill in the missing pieces.
3. Quiz yourself often. Can you define a concept in your own words? Can you answer 3 or 4 questions of the textbook practice questions correctly?
4. Review the materials on a regular basis. Consider the Pomodoro technique. Set aside 20-25 minutes each time and study.
5. Complete all lab assignments and all exams.

Learning Outcomes

1. Learning to review the primary literature (improving library research skills, increasing familiarity with scientific writing, and reading journal articles)
2. Learning how research ideas are developed, including the formulation of testable hypotheses
3. Analysis of research results, including a basic understanding of descriptive statistics, probability, and percentiles
4. Produce a quality APA style report

GRADING

Final grades in this course will be based on the following scale:

A = 90%-100%
B = 80%-89%
C = 70%-79%
D = 60%-69%
F = 59% or Below

Assessments

Your final grade is weighted 80% lecture and 20% lab. However, to receive a C or better in the course, <u>students MUST receive a grade of C or better in BOTH the lecture and lab sections.</u> Students who receive less than a C in either the lecture or lab will receive either an automatic D in the course, or their earned course grade if lower than D.

The lab and lecture grades are further broken up into separate assignment. The contribution of each assignment to the corresponding category (lecture or lab) appears next to each item.

Lecture

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Exams (60%) - There will be two exams given during the semester. A mid-term exam and a final exam that will be cumulative. These two exams will be weighted equally. There will be no make-up exams except as mandated by University policy for University-excused absences, religious holidays and major illnesses. Students should contact the professor **prior** to the scheduled exam if possible, or within 24 hours of missing the exam due to accident or illness.

Homework (40%) – There will be SPSS activities turned in for a grade.
These assignments are designed to increase your understanding of how to interpret SPSS output and use that output to write an APA style results section. **Due dates for homework assignments are listed below on the schedule of topics.**

Lab

LA1: **Graphs (15%)** – For the graphing activity, students will submit their APA format graphs. These will be graded for accuracy.

LA2: Results Section (30%) – Students will submit the results section for their paper. These will be graded for accuracy.

LA3: Discussion Outline (15%) – Students will submit an outline for their discussion section. This assignment is graded pass/fail.

LA4: Final Paper (40%) – Students will submit their results and discussion sections, references, and all sections from their 302 paper. Any recommended edits to the previous sections should appear in this version.

Guidelines for Homework and Lab Assignments:

1. Assignments are to be turned in by 11:30pm on the due date.
2. I will accept emailed assignments on an emergency basis only. Assignments sent through email must be received before 11:30pm on the due date.
3. ***ABSOLUTELY NO LATE ASSIGNMENTS*** will be accepted. If your assignment is more than 30 minutes late you will earn 0 points for that assignment.
4. Assignments are intended to be completed individually. *DO NOT WORK TOGETHER ON ASSIGNMENTS.*

TECHNOLOGY REQUIREMENTS

Browser support

The syllabus/schedule are subject to change.

D2L is committed to performing key application testing when new browser versions are released. New and updated functionality is also tested against the latest version of supported browsers. However, due to the frequency of some browser releases, D2L cannot guarantee that each browser version will perform as expected. If you encounter any issues with any of the browser versions listed in the tables below, contact D2L Support, who will determine the best course of action for resolution. Reported issues are prioritized by supported browsers and then maintenance browsers.

Supported browsers are the latest or most recent browser versions that are tested against new versions of D2L products. Customers can report problems and receive support for issues. For an optimal experience, D2L recommends using supported browsers with D2L products.

Maintenance browsers are older browser versions that are not tested extensively against new versions of D2L products. Customers can still report problems and receive support for critical issues; however, D2L does not guarantee all issues will be addressed. A maintenance browser becomes officially unsupported after one year.

Note the following:

- Ensure that your browser has JavaScript and Cookies enabled.
- For desktop systems, you must have Adobe Flash Player 10.1 or greater.
- The Brightspace Support features are now optimized for production environments when using the Google Chrome browser, Apple Safari browser, Microsoft Edge browser, Microsoft Internet Explorer browser, and Mozilla Firefox browsers.

Desktop Support

Browser	Supported Browser Version(s)	Maintenance Browser Version(s)
Microsoft® Edge	Latest	N/A
Microsoft® Internet Explorer®	N/A	11
Mozilla® Firefox®	Latest, ESR	N/A
Google® Chrome™	Latest	N/A
Apple® Safari®	Latest	N/A

Tablet and Mobile Support

Device	Operating System	Browser	Supported Browser Version(s)
Android™	Android 4.4+	Chrome	Latest

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Device	Operating System	Browser	Supported Browser Version(s)
Apple	iOS®	Safari, Chrome	The current major version of iOS (the latest minor or **point** release of that major version) and the previous major version of iOS (the latest minor or **point** release of that major version). For example, as of June 7, 2017, D2Lsupports iOS 10.3.2 and iOS 9.3.5, but not iOS 10.2.1, 9.0.2, or any other version. Chrome: Latest version for the iOS browser.
Windows	Windows 10	Edge, Chrome, Firefox	Latest of all browsers, and Firefox ESR.

- You will need regular access to a computer with a broadband Internet connection. The minimum computer requirements are:
  - 512 MB of RAM, 1 GB or more preferred
  - Broadband connection required courses are heavily video intensive
  - Video display capable of high-color 16-bit display 1024 x 768 or higher resolution

- You must have a:
  - Sound card, which is usually integrated into your desktop or laptop computer
  - Speakers or headphones.
  - *For courses utilizing video-conferencing tools and/or an online proctoring solution, a webcam and microphone are required.

- Both versions of Java (32 bit and 64 bit) must be installed and up to date on your machine. At a minimum Java 7, update 51, is required to support the learning management system. The most current version of Java can be downloaded at: JAVA web site http://www.java.com/en/download/manual.jsp

- Current anti-virus software must be installed and kept up to date.

Running the browser check will ensure your internet browser is supported.
        Pop-ups are allowed.
        JavaScript is enabled.
        Cookies are enabled.

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- You will need some additional free software (plug-ins) for enhanced web browsing. Ensure that you download the free versions of the following software:
  - Adobe Reader https://get.adobe.com/reader/
  - Adobe Flash Player *(version 17 or later)* https://get.adobe.com/flashplayer/
  - Adobe Shockwave Player https://get.adobe.com/shockwave/
  - Apple Quick Time http://www.apple.com/quicktime/download/

- At a minimum, you must have Microsoft Office 2013, 2010, 2007 or Open Office. Microsoft Office is the standard office productivity software utilized by faculty, students, and staff. Microsoft Word is the standard word processing software, Microsoft Excel is the standard spreadsheet software, and Microsoft PowerPoint is the standard presentation software. Copying and pasting, along with attaching/uploading documents for assignment submission, will also be required. If you do not have Microsoft Office, you can check with the bookstore to see if they have any student copies.

ACCESS AND NAVIGATION

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or helpdesk@tamuc.edu.

Note: Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

COMMUNICATION AND SUPPORT
Brightspace Support

Need Help?
Student Support

If you have any questions or are having difficulties with the course material, please contact your Instructor.

Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778 or click on the **Live Chat** or click on the words "click here" to submit an issue via email.

System Maintenance

D2L runs monthly updates during the last week of the month, usually on Wednesday. The system should remain up during this time unless otherwise specified in an announcement. You may experience minimal impacts to performance and/or look and feel of the environment.

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EMAIL POLICY

If you would like to schedule an appointment, the best way is to email. We can then set up a time to chat when it is convenient for you. During posted office hours, the instructor will return emails upon receipt.

Outside of these times, please allow 24 hours to receive a response on weekdays. If you email me and do not receive an email response within, 48 hours, most likely, your email was not received.

EMAIL GUIDELINES

In an attempt to provide a framework for professional communication, emails must contain the following:

- Subject Line: Course (e.g. PSY 305); additional information if desired (e.g. Hypothesis testing)
- Address the Reader: Open with Dr. Carlson
- Adhere to writing mechanics rules
- If asking for assistance with an issue, please list at least 3 things you have done to try and remediate the issue prior to contacting me (these should probably include looking at the syllabus/ course rubrics/ eCollege, contacting a colleague, and checking your text, etc.)
- Close with your name

Please send emails from your University accounts. The instructor will not discuss grades over email. If you would like to discuss your grade, please make an appointment during office hours.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

Syllabus Change Policy

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

University Specific Procedures

Student Conduct

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the Student Guidebook. http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: Netiquette http://www.albion.com/netiquette/corerules.html

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Attendance

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).
http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf

Academic Integrity

Students at East Texas A&M University are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf

AI Use in Course

East Texas A&M University acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors 'guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty
The *syllabus/schedule are subject to change.*

13.99.99.R0.10 Graduate Student Academic Dishonesty

ADA Statement

Students with Disabilities

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

Office of Student Disability Resources and Services

East Texas A&M University
Velma K. Waters Library – Room 162
Phone (903) 886-5150
Fax (903) 468-8148
Email: StudentDisabilityServices@etamu.edu
Website: [Office of Student Disability Resources and Services](#)

Nondiscrimination Notice

East Texas A&M University will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

Campus Concealed Carry Statement

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in East Texas A&M University buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and East Texas A&M University Rule 34.06.02.R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

Web url:
http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all East Texas A&M University campuses. Report violations to the University Police Department at 903- 886-5868 or 9-1-1.

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COURSE OUTLINE / CALENDAR

Week	Dates	SCHEDULE OF TOPICS AND EXAMS				
		Topic	*Assigned Readings*	*Assignment*	*Lab*	*Assignment*
1	7/7 – 7/13	Hypothesis Testing: *t*-tests	Ch. 12, 13, and 14 (Howell)	HW1: Due July 13th	Descriptive Statistics using SPSS	LA1
2	7/14 – 7/20	Hypothesis Testing: Analysis of Variance (ANOVA)	Ch. 16 (Howell)	HW2: Due July 20st	T-tests using SPSS	
3	7/21 – 7/27	Hypothesis Testing: Factorial ANOVA and Interactions	Ch. 17 (Howell) Ch. 10 (Nestor)	***Midterm Exam Due: July 27th*** HW3: Due July 27th	One Way ANOVA using SPSS	LA2
4	7/28 – 8/3	Correlation, Power, & Effect Size	Ch. 9 and 15 (Howell) Ch. 7 (Nestor)	HW4: Due August 3rd	Factorial ANOVA using SPSS	LA3
5	8/4 – 8/7	Quasi – Experimental Design	Ch. 11 (Nestor)	***Final Exam Due: August 7th***		LA4

***Homework Assignments** (HW), the **Midterm Exam,** and the **Final Exam** are due at 11:59pm on the date listed above.
***Lab Assignments** (LA) are due on Sunday at 11:59pm of each week, with the exception of LA4 that is due on the last day of class, a Thursday.