Please, click on the following link to access A&M-Commerce Covid 19 Information, https://new.tamuc.edu/coronavirus/

PSY 305 Statistics and Research Methods II

COURSE SYLLABUS: Spring 2022
TR 9:30-10:45 (01E) 11:00pm-12:15pm (02E)
Location: Henderson 207

INSTRUCTOR INFORMATION

Instructor of Record: Dr. David Frank, Assistant Professor
Office Location: 215 Binnion
Office Hours: TR 12:15-2:45
University Email Address: david.frank@tamuc.edu
Preferred Form of Communication: email
Communication Response Time: 48 hours excluding weekends

Lab Instructor: Bailey Ayers
Office Location: 218 Binnion
Office Hours: TBD
University Email Address: bayers1@leomail.tamuc.edu
Preferred Form of Communication: email
Communication Response Time: 48 hours excluding weekends

The syllabus/schedule are subject to change.
COURSE INFORMATION

Materials – Textbooks, Readings, Supplementary Readings

Textbook(s) Required

Nestor & Schutt, *Research Methods in Psychology (3rd)*
ISBN: 978-1-544-32377-0

Howell, *Fundamental Statistics for the behavioral sciences (9th)*

Stanovich, *How to think straight about psychology (9th or 10th)*
ISBN-10: 0205914128

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 literature review and a methods and expected results 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.

Student Learning Outcomes (Should be measurable; observable; use action verbs)

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

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COURSE REQUIREMENTS

Instructional Methods
This course in person. Students are **REQUIRED** to attend all lecture and lab meetings. If you need to miss a meeting, let me know in advance. Late notice will be excused only with documentation.

Student Responsibilities or Tips for Success in the Course

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.
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?
4) Complete all lab assignments and all exams.

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, students MUST receive a grade of C or better in BOTH the lecture and lab sections. 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**

**Exams (80%)** - There will be three exams given during the semester, plus a final exam that will be cumulative. These four exams will be weighted equally. If you need to miss an exam for any reason, let me know IN ADVANCE. If you miss an exam and do not let

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me know in advance, but have a documented excuse (e.g., a doctor’s note), there will be a chance to complete a make-up exam, but with an automatic 10-point deduction (loss of a letter grade) on the exam.

**Attendance (10%)** – Attendance will be taken daily. Each student is permitted two unexcused absences. If you need to miss class or arrive late, you must inform the instructor via email BEFORE class or provide documentation (e.g., doctor’s note). Note that active military, reservists, and students representing the university through sports, music, dance, etc., are excused on dates they are deployed/traveling for those obligations.

**Research Engagement (10%)** - A goal of this class is to help you familiarize yourself with research methods. One way to obtain this goal is to have you participate in research studies. Participating in research studies contributes to students and faculty at A&M - Commerce, your understanding of how research is conducted, and human knowledge in general. All students in this class will be required to participate in the psychology department’s participant pool or complete alternative assignments (see D2L for more information on alternative assignments).

Students must complete a total of 10 experiment credits. When you first sign into the experiment management system (EMS) you will be asked to take a prescreen. The prescreen takes about 20 minutes to complete. If you complete the prescreen in the first two weeks of the semester you will receive 0.5 free experiment credit. This can be combined with later experiments that are worth 0.5 credit.

**Lab**
Labs take place on Thursdays or asynchronously depending on which section you are enrolled in. All lab assignments are due the following Tuesday.

**Attendance (10%)** – Attendance will be taken daily. Each student is permitted two unexcused absences. If you need to miss class or arrive late, you must inform the instructor via email BEFORE class or provide documentation (e.g., doctor’s note). Note that active military, reservists, and students representing the university through sports, music, dance, etc., are excused on dates they are deployed/traveling for those obligations.

**SPSS activities (35%)** – Following each SPSS activity, student will submit a written results section. These will be graded for accuracy.

**Graphs (5%)** – For the graphing activity, students will submit their APA format graphs. These will be graded for accuracy.

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Discussion Outline (5%) – Students will submit an outline for their discussion section. This assignment is graded pass/fail.

Final Paper (25%) – 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.

In-class Presentation (20%) – Students will make a 5 minute power point presentation for their study. This will cover their background, research question, methods, results, and discussion.

COURSE REQUIREMENTS

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

Instructional Methods
The primary teaching method for this course will be lecture peppered with class discussion and in-class activities designed to elucidate information from the text and lecture.

Student Responsibilities or Tips for Success in the Course
1) Check and read class emails promptly for announcements, updates, clarifications, etc.
2) Take notes as you listen to 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.

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Counseling Center at A&M-Commerce

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center’s crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit www.tamuc.edu/counsel
TECHNOLOGY REQUIREMENTS

Browser support
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

<table>
<thead>
<tr>
<th>Browser</th>
<th>Supported Browser Version(s)</th>
<th>Maintenance Browser Version(s)</th>
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</thead>
<tbody>
<tr>
<td>Microsoft® Edge</td>
<td>Latest</td>
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<tr>
<td>Microsoft® Internet</td>
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<td>11</td>
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<tr>
<td>Explorer®</td>
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<tr>
<td>Mozilla® Firefox®</td>
<td>Latest, ESR</td>
<td>N/A</td>
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<tr>
<td>Google® Chrome™</td>
<td>Latest</td>
<td>N/A</td>
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<tr>
<th>Browser</th>
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<th>Maintenance Browser Version(s)</th>
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</thead>
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<tr>
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Table and Mobile Support

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<th>Device</th>
<th>Operating System</th>
<th>Browser</th>
<th>Supported Browser Version(s)</th>
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<tr>
<td>Android™</td>
<td>Android 4.4+</td>
<td>Chrome</td>
<td>Latest</td>
</tr>
<tr>
<td>Apple</td>
<td>iOS®</td>
<td>Safari, Chrome</td>
<td>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, D2L supports 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.</td>
</tr>
<tr>
<td>Windows</td>
<td>Windows 10</td>
<td>Edge, Chrome, Firefox</td>
<td>Latest of all browsers, and Firefox ESR.</td>
</tr>
</tbody>
</table>

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

- **For YouSeeU Sync Meeting sessions 8 Mbps is required.**  Additional system requirements found here: [https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements](https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements)

- You must have a:
  o Sound card, which is usually integrated into your desktop or laptop computer
  o Speakers or headphones.

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- *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.

- 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/

- 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.

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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.

Interaction with Instructor Statement

If you contact me or a teaching assistant and do not receive an email response within 48 hours (excluding weekends), most likely, your email was not received.

Grades/Feedback on assignments will typically be given within one week, but may take up to two weeks for longer assignments or busier times of the semester.

COURSE AND UNIVERSITY PROCEDURES/POLICIES

Course Specific Procedures/Policies

There will be NO after the fact make-up examinations and late assignments will not be accepted (except in cases of military deployment). If you are traveling and representing the university (e.g., band members, athletes, etc.) you need to request accommodations BEFORE an exam is due, not after. Otherwise I drop the lowest exam score to account for potential emergencies.

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.

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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/oneStopShop/undergraduateAdmissions/studentGuidebook.aspx

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

TAMUC 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 Texas A&M University-Commerce 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

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

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

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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**
Texas A&M University-Commerce  
Gee Library- Room 162  
Phone (903) 886-5150 or (903) 886-5835  
Fax (903) 468-8148  
Email: studentdisabilityservices@tamuc.edu  
Website: [Office of Student Disability Resources and Services](http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

**Nondiscrimination Notice**
Texas A&M University-Commerce 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 Texas A&M University-Commerce 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 A&M-Commerce 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](http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf) document and/or consult your event organizer.

Web url:  
[http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf](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 A&M-Commerce campuses. Report violations to the University Police Department at 903-886-5868 or 9-1-1.

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### Statistics and Research Methods II:

<table>
<thead>
<tr>
<th>Lecture Schedule</th>
<th>Lab Schedule</th>
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<tr>
<td><strong>Week</strong></td>
<td><strong>Date</strong></td>
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<tr>
<td>1</td>
<td>13-Jan</td>
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<td>2</td>
<td>18-Jan</td>
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<td>27-Jan</td>
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<td>4</td>
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<td>5</td>
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<td>5</td>
<td>10-Feb</td>
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The syllabus/schedule are subject to change.
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<table>
<thead>
<tr>
<th></th>
<th>Date</th>
<th>Topic</th>
<th>Reading/Activity</th>
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<tr>
<td>10</td>
<td>22-Mar</td>
<td>ANOVA – Repeated Measures</td>
<td>Ch 18</td>
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<tr>
<td></td>
<td>24-Mar</td>
<td>ANOVA – Repeated Measures</td>
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<td>29-Mar</td>
<td>Correlation</td>
<td>Ch 9, Ch 7</td>
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<td></td>
<td>31-Mar</td>
<td>Correlation</td>
<td></td>
<td>Ch 5</td>
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<td>12</td>
<td>5-Apr</td>
<td>Power and Effect Size</td>
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<tr>
<td></td>
<td>7-Apr</td>
<td>Power and Effect Size</td>
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<td>13</td>
<td>12-Apr</td>
<td>Exam Review</td>
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<td>14-Apr</td>
<td>Exam 3</td>
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<td>14</td>
<td>19-Apr</td>
<td>More Interactions</td>
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<tr>
<td></td>
<td>21-Apr</td>
<td>More Interactions</td>
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<tr>
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<td>Basics of giving a research talk</td>
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<td>Factorial ANOVA due</td>
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<td>SPSS Repeated Measures ANOVA</td>
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<td>SPSS Correlations</td>
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<td>Repeated measures ANOVA due</td>
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<td>Writing a Discussion</td>
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<td>Correlation homework due</td>
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<tr>
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<td>Class presentations: 5 minutes each</td>
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<td>Discussion outlines due.</td>
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15
26-Apr
Quasi-Experimental Designs
Ch 11

28-Apr
Quasi-Experimental Designs

16
3-May
Final Exam Review

5-May
Final Exam Review

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