Research Design and Statistics I

PSYC 2443-001— Summer 2021 — June 7th – July 8th

Virtual Lecture: Monday - Thursday 8:00 - 10:00AM — Microsoft Teams

Virtual Lab: Tuesday/Thursday 10:30AM - 12:30PM — Microsoft Teams

Instructor: Dr. Erin Austin
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Office Number: Life Science 302
Office Hours: Virtual 10AM-11AM Monday/Wednesday or by appointment
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Course Description and Goals: This course provides theoretical and practical approaches to research methodology, statistical analyses, and reporting of research. In this course, you will learn a variety of methods and procedures commonly used to conduct psychological research. You will also learn how to analyze data appropriately and how to communicate the research results to the scientific community. In the field of psychology, researchers can study human thoughts, emotions, and behavior from a variety of approaches including developmental, biological, cognitive, and sociocultural. Regardless of the area of interest, research design and statistics will be an integral part of your experience as you progress through your major and a necessary tool you will use when you become professionals in the field of psychology. This course is a foundational course, meaning that information you learn and the skills you develop in this course will be used not only in PSYC 2444 but in other courses you will take throughout your undergraduate studies as a psychology major. This is an intense course with multiple projects both in and out of class. **You must be prepared to take on an intensive course load in order to do well in this class.**

Prerequisites: PSYC 1315, MATH 1302 (or equivalent), ENGL 1302 and completion of the computer competency requirement. ***Note***: 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.

Required Text and Course Materials (also used in PSYC 2444):

1. Gravetter, F.J., & Wallnau, L.B. (2017). *Essentials of Statistics for the Behavioral Sciences* (10th ed.). Belmont, CA: Wadsworth. Cengage. **ISBN: 978-0-3573-6529-8**
2. McBride, D.M. (2019). *The Process of Research in Psychology* (4th ed.). Thousand Oaks, CA: Sage. **ISBN: 978-1-5443-2349-7**
3. *Publication Manual of the American Psychological Association* (7th edition). Washington, D.C.: American Psychological Association. **ISBN: 978-1-4338-3215-4**
4. Departmental Lab Manual. **ISBN: 978-1-60904-955-3** (only available at UTA – those provided off campus may be copied illegally and thus not approved for this course)
5. **Optional Resources:**
   - **APA Formatting:** www.apastyle.org
   - **Publishers' websites:** for workshops at: https://edge.sagepub.com and www.cengagebrain.com
   - **Statistics Tutoring and Supplemental Instruction:** see Canvas announcement

Technology Requirements:

- ***Note:*** This course will be computer/internet intensive. You will need a personal device (desktop, laptop, smartphone, tablet, etc.) or access to a UT Arlington computer lab so you can access Canvas and Echo360 regularly and participate in class effectively. If you do not own a computer, please make arrangements to rent one through the UTA library or to access and use the computers available to you on campus during lab and lecture times.

- You will need access to Canvas, Microsoft Teams, Echo360, Lockdown Browser with Monitor, Microsoft Office (e.g., Word, Excel, Teams), and SPSS (all available with your UTA account).
- Canvas will be an important resource throughout the semester, so you will need to be proficient in the use of Canvas to perform well. Your assignments, grades, and supplemental readings will be posted through Canvas. Make sure you have access to Canvas.
    - Canvas support is available 24/7 by calling 1-855-597-3401 or by clicking on the "?" icon on your Canvas Dashboard.
- **Access to a computer with a webcam and SPSS statistical software.** Webcams will be used with Respondus Lockdown Browser. SPSS, the statistical software, is available for **free** for all students enrolled at the University of Texas at Arlington through OIT and compatible with PC and Mac operating systems. Additionally, computers are available in the OIT Labs, library computers, and on most Departmental desktops (see UTA.edu for hours of operation). SPSS will be used in the lecture and lab and is required to complete assignments in this course.

Microsoft Teams: You will participate in the course like a face-to-face course, but it will all be done online in Microsoft Teams. You will need to attend online lecture and lab sessions at the scheduled day and time. There will be a Microsoft Team for lecture and your assigned lab. There will be separate channels within these Microsoft Teams for group work, lecture recordings etc. Recording of lecture and labs will be posted in these channels for reference.

Echo360: For lectures this semester, we will be using the Echo360 software available for free through the University of Texas at Arlington. The corresponding lecture slide decks will be available on Echo360. Additionally, the student response portion of the Echo360 software will help us understand what you know, give everyone a chance to participate in class, and allow you to review the material after class. Please go to the Canvas site for this course, find "Echo360" on the left toolbar, and open the software. You will be directed to set up an account. Your username will be your email address and the password will be whatever you prefer (this account is not the same as your UTA account). You should also enter your cellphone number into your account information if you would like the option of texting responses to in-class polls. ***Note:*** you MUST set up the initial connection between the course's Canvas site and your Echo360 account on a desktop or laptop computer through Canvas (NOT through an app). This is true even if you already have an Echo360 account. After you set up the Echo360 account, you will be able to download and use the Echo360 app on tablets or smartphones with iOS or android operating systems. You will need to activate an Echo360 account for this course. For questions regarding Echo360, please visit the support website (http://echo360.com). You must have access to a smart device or laptop.

Respondus Lockdown Browser and Monitor: Exams will be administered on Canvas with an online proctoring service, Respondus Lockdown Browser, which must be downloaded onto the computer/laptop where all exams will be taken. You will need a webcam and the Lockdown Browser software downloaded on your computer or use of a computer lab on campus that has the Lockdown Browser and a webcam. The Lockdown Browser locks down the testing environment in Canvas and requires use of a webcam for students to record the quizzing/testing session. The webcam can be the type that is built into your computer or one that plugs in with a USB cable. ***Note:*** not all devices (for example Chromebooks) can access Lockdown Browser with Monitor. Please check that you have access to a device on which you can access all required software. Watch this brief video to get a basic understanding of LockDown Browser and the webcam feature: https://www.respondus.com/products/lockdown-browser/student-movie.shtml

Download and install LockDown Browser from this link:
https://download.respondus.com/lockdown/download.php?id=163943837

Once Installed:

- Start LockDown Browser
- Log into Canvas
- Note: if you do not follow this order, it will not work properly. This is the first thing to check if you experience a problem.

Testing Procedure Using LockDown Browser: Before you start your quiz or test, please hold up your student ID for identification purposes. Please stay seated and remain appropriately attired the entire time. Your face (eyes, nose, mouth, etc.) must remain visible in the video recording during the entire quiz. You are prohibited from accessing other resources while taking the quiz/test (such as phone, tablet, notes, books, other people, etc.). You should not discuss the quiz/test questions with other class members or other people (in-person or on social media). **If you do not adhere to these requirements for taking a quiz/exam, you will receive a grade of zero (0) on the quiz/exam.** If you engage in any activities that violate the UT Arlington Honor Code, you also will receive a referral for scholastic dishonesty and a grade of zero (0). Finally, please remember not to exit the quiz/exam until all questions are completed and submitted for grading. Once you hit submit, your responses are final.

Course Structure

This course includes a lecture portion that will focus on the development of your conceptual understanding and background knowledge of research design and statistical analyses and a lab portion that will focus on the development of your research and statistical skills. The course is divided into 3 modules and exams are given at the end of each module in lecture (multiple choice) and in lab (word problems). There is no comprehensive final exam.

Learning Objectives for Module I:

- Describe areas of psychological research and the differences between basic and applied research; research conducted in naturalistic and laboratory settings
- Describe ethical standards for research using human participants and animal subjects
- Identify and compare descriptive and predictive methods as well as the explanatory method
- Use resources in the library to locate and confirm information, and understand APA writing requirements
- Explain the following concepts: scales of measurement, reliability, validity, operational definitions
- Compute standard scores and measures of central tendency and variation

Learning Objectives for Module 2:

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

Learning Objectives for Module 3:

- Discuss the strengths of correlations and interpret scatterplots
- Calculate correlation coefficients and perform analyses on various types of regression curves
- Differentiate between parametric and nonparametric statistics
- Calculate and interpret Chi-square and Wilcoxon's rank-sum tests
- Use SPSS software to test for statistical significance

Lab Information

Teaching Assistants and Corresponding Lab Sections — Labs and Office Hours in Microsoft Teams					
Section	**Time**	**TA**	**Email (@mavs.uta.edu)**	**Office**	**Office Hours**
002	Tuesday/Thursday	TBA—See Canvas		Virtual	By Appointment
003	10:30AM – 12:30PM				
Manuscript Grader				Virtual	By Appointment

Course Components

Lecture	
Assignment	**Point Total**
Lecture Exams (3 – 50 pts)	150 Points
Lab Exams (3 – 50 pts)	150 Points
Participation (10 pts)	10 Points
Extra Credit (5 pts)	5 Points
Total Lecture:	**310 Points**

Lab	
Assignment	**Point Total**
Manuscript Assignments (3)	90 Points
In-Class Assignments (11)	110 Points
Homework (11)	110 Points
Extra Credit (5 pts)	5 Points
Total Lab:	**310 Points**

***Note*:** You must receive a passing grade in both lecture and lab to pass this course. A passing grade is considered a "C" or 70% which is 217 points out of 310 points in both lecture and lab. For example, earning 217 points in lab, but failing to do so in lecture will result in a final grade of a D.

Lecture Exams (50 pts each): There will be three lecture exams given throughout the semester administered on Canvas using Respondus Lockdown Browser. Each lecture exam will be worth 50 points and will consist of 50 multiple-choice questions. Lecture exams will be open for 15 hours and you will have 1 hour and 30 minutes to take the exam during that window. See the **Lecture Schedule** for exam dates. Exam questions will be taken from class lectures, activities, and assigned readings. You will need Respondus LockDown Browser with Webcam to take the exam.

Lab Exams (50 pts each): There will be three lab exams given throughout the semester administered on Canvas using Respondus Lockdown Browser. Each lab exam will be worth 50 points and will consist of short answer questions and practical statistical exercises. Lab exams will be open for 2 ½ days and you will have 2 hours to take the exam during that window. See the **Lab Schedule** for exam dates. Exam questions will be taken from class lectures, activities, in-class assignments, and homework. You will need Respondus LockDown Browser with Webcam to take the exam.

Note: *Make-up lecture and lab exams will be given at the discretion of your professor (see the* ***Make-Up Work*** *policy for more information). Please allot enough time to study for and take the exam prior to the end of the period – do NOT wait until the last hour. If you do not take an exam, it will be considered a missed exam, and you will receive a grade of zero (0). I will not reset exams for any reason within 1 hour of the deadline for the exams, and I will not reset an entire exam if you have completed most of the items.*

Lecture Participation (10 pts): Lecture participation is required and will be assessed daily using the Echo360 system. Echo360 will be used to record student participation and post lecture recordings and slides. The **Lecture Schedule** of assigned class topics is provided below. I expect you to be prepared with knowledge of the topic(s) indicated on the schedule. Therefore, I expect that all students will have read and reviewed the assigned material prior to participating in lecture. In the slide decks, I will ask questions to test your

knowledge on the topics that will be related to the information and supporting resources that I will include in the lecture. You must answer all questions (you must open the slide deck and answer the questions within the deck). Lecture participation grades will be determined using the Echo360 system and will be displayed as a percentage (i.e., 0% to 100% for activity participation or answering questions). The lectures, slide decks, and questions will open for 24 hours; therefore, if you miss lecture you can review the recording and lecture and answer the participation questions within the 24-hour period to receive 100% credit (note that posting of the lecture video may be delayed due to computer processing time). The final Lecture Participation grade will equal the average of all daily lecture participation grades (i.e., the average percentage) multiplied by 10 to calculate to final Lecture Participation points.

Manuscript Assignments (90 pts total): In lab, you and your group will complete a semester research project and learn how to write an APA-formatted manuscript. The manuscript is divided into three separate assignments. Manuscript Assignment #1 will cover the title and methods section and is worth 20 points. Manuscript Assignment #2 will cover the introduction and reference sections and is worth 30 points. Manuscript Assignment #3 will cover the results and discussion sections as well as appropriate figures and is worth 40 points. Manuscript Assignments will be due at 11:59PM throughout the semester. See the **Lab Schedule** for due dates.

In-Class Assignments (ICAs; 10 pts each; 110 pts total): During lab, ICAs (and the Homework assignments below) are your opportunity to learn the practical skills needed in order to be successful in Research Design & Statistic II as well as in other upper-level psychology courses. These assignments will help you develop your skills as a scientific writer and test your understanding of the concepts covered in the course. Answers to ICAs will be submitted on Canvas**. Lab attendance will be assessed via ICAs**. On Canvas, the ICAs' submission pages will open at the beginning of the lab and close one hour after lab is finish for the day. During this window, you have unlimited attempts to submit correct answers for the ICAs. If you are struggling with a question, you should reach out to your TA for additional assistance. ICAs should be completed during lab, but you will have one additional hour to complete the assignment if you need it after lab. If you miss lab, you will not be able to make up missed ICAs. If you miss all of the lab sections for the week, you will not be able to make up missed ICAs and will receive a zero (0).

Homework Assignments (10 pts each; 110 pts total): Homework assignment submission pages will open a week before the due date, and you will only have one attempt to submit your answers for assignments. The homework assignments are designed so that you will work out the problems in advance, then fill in answers on Canvas thereby providing you with immediate feedback regarding your performance. Assignments are due at 11:59PM on the dates noted on the **Lab Schedule**. If you miss completing and/or submitting the homework assignment for the week, you will not be able to make up the missed homework assignment and will receive a zero (0).

Note: During lab time, we request that you make an effort to interact with the TA, asking questions and receiving feedback. They are there to help lab be a time for you to engage in active, hands on learning. If you are struggling with a question, someone else is as well and if you reach out to your TA for additional assistance, you may improve your learning outcomes as well as someone else's.

Evaluation: Final grades will be assigned based on the following points:

Points	Percentage	Letter Grade
558-620	100 – 90.0%	A
496-557	80.0 – 89.9%	B
434-495	70.0– 79.9%	C
372-433	60.0– 69.9%	D
<310	< 59.9%	F

Grades: Grading is based on a mastery model. Students are expected to keep track of their performance throughout the semester and seek guidance from available sources. *I make it a policy not to "bump" any final grade up to the next higher grade.* Please do not ask me to do otherwise. If you want a specific grade, then you need to put in the effort necessary to obtain said grade.

Course Policies and Important Things to Know

Email: Official communication from UTA to you will come only through your UTA e-mail box. 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 OIT: Student MavMail. Please access it regularly, or forward it to your current email address, as your success in college may depend on your ability to respond quickly.

I will communicate with you using Canvas email. To contact me by Canvas email, go to your Canvas inbox (left hand side of Canvas homepage), open a new message, select this course, and then select my name. Using Canvas email will allow me to know which section and group you are enrolled in and I can respond to your question or concern sooner. In fact, emails sent from Canvas are given priority over all other emails even those sent through non-Canvas MyMav accounts. We will not answer emails sent from personal (non-MyMav) accounts since these are not secure.

I am generally good at responding to student e-mails within 24 hours. If you do not hear from me within 48 hours of your initial correspondence, please feel free to send me a reminder Canvas email. Please keep in mind that I do not answer emails after 6PM (Central Time). I will respond to emails sent after 6PM the following day. If you need assistance or have a question about an assignment, please plan accordingly and ask for help sooner rather than later. It is not guaranteed that I will be available to respond to emails sent within 5 hours of the deadline for any assignment. I do want to help you and answer any questions you may have, so please send your questions to me well ahead of the deadline so I can assist you.
Please keep in mind that I **will not** respond to your email if it relates to the following:

- Questions regarding information that can be found on the syllabus
- Information that can be found on Canvas or in a Canvas Course announcement
- Asking for more points to be added to your grade or to have your grade bumped to the next letter grade

Expectations for Out of Class Study: This course is a shorter, accelerated course that covers 16-weeks of material in 5-weeks. Workload for this course is intensive and requires significant effort in and out of class. 4-6 chapters will be covered each week. It is your responsibility to keep up with course readings, assignments, and due dates. A general rule of thumb for college course is that for every credit hour earned, you should spend 3 hours per week working outside of class time. A 3-credit course would have the minimum expectation of 9 hours of reading, studying, and working on assignments outside of class time. Since this class is online and condensed

into 5-weeks, it your responsibility to manage your time and workload appropriately and schedule time each week for reading and studying in this course. Beyond the time required to "attend" each class meeting, students enrolled in this course should expect to spend at least an additional 10 hours per week of their own time in course-related activities, including reviewing required materials, completing assignments, and preparing for exams. Students who succeeded in this class have set up designated times outside of class dedicated to reading and completing coursework. Generally, successful students managed their time wisely and take advantage of the resources offered to them including meeting with the professor, TAs, Statistic Tutors, and attending Supplemental Instruction sessions.

Make-Up Work: Lecture attendance is required, and lab attendance is mandatory. No make-up opportunities for lab assignments, lab exams, and lecture exams will be given unless documentation is received for a University-approved absence and arrangements are made with me ***prior*** to your absence. Requests to make-up work for any other reason that does not fall under university excused absences such as a serious medical emergency or other extenuating circumstances will be evaluated on a case by case basis after documentation is received and are at the discretion of faculty approval. You must make-up missed work within 5 working days. Students who miss a class meeting(s) for any reason or miss portions of classes due to tardiness or early departure will **still be held accountable for all of the material that is covered** during those sessions, including materials presented in lecture that are not in the book. If you miss a class, find a classmate (or two) with whom you can share resources. **Please do not email me to ask what materials you missed in class**. Material covered in class is your responsibility.

Protocol for missing a lab day (including exams): Email your Lab TA and copy Dr. Austin on the e-mail. Explain the situation and provide documentation at that time if available. Any communication regarding missed class periods must be documented via e-mail and approval will be decided by Dr. Austin.

Protocol for missing lecture exams: Email Dr. Austin and explain the situation. Provide documentation at that time if available. Any communication regarding missed lecture exams must be documented via e-mail and approval will be decided by Dr. Austin.

Late Work: Five points per day (i.e. each 24-hour period) will be deducted from your final score for any project (manuscript and poster assignments) that is received late. Please be sure to check the **Lecture Schedule** and **Lab Schedule** for all due dates. ICAs and Homework assignments are not accepted late.

Extra Credit: There will be a 5-point extra credit opportunity for lecture, and a 5-point extra credit opportunity for lab posted on Canvas. I do not offer individual extra credit opportunities as it would not be fair to the rest of the class.

Correct Files: Students are responsible for submitting the correct, complete, and viable file(s) with the correct assignments. Files that are submitted to the wrong assignment or assignments that are submitted with an incorrect, incomplete, or corrupt file can be replaced with corrected files only if the correction is made prior to the original due date and time. Corrected files or submissions that occur after the original due date will be considered late (see **Late Work** policy). Students are strongly encouraged to submit assignments in advance of the due time, then log out of Canvas, log back in and check that the assignment was successfully submitted, that the file is not corrupt, is the correct file, is complete, and is attached to the correct assignment.

Technological Difficulties: Given the online nature of this course, technological issues are possible. However, technological difficulties (Wi-Fi connectivity issues, browser issues, computer problems etc.) are not a valid reason to ask for an extension or ask that the work not be considered late (see **Late Work** policy). It is your responsibility to make sure you have access to a computer, the course assignments, and reliable Wi-Fi. Further,

it is also your responsibility to give yourself enough time before the deadline to deal with any technological difficulties that may arise.

If you experience any problems with Canvas, Canvas Help is the best resource to contact for help. Canvas Help is available on your Canvas Dashboard menu as indicated by the "?" icon. Keep in mind that Canvas records the time and date each student visits any page on Canvas but it does not record specific error messages students may receive. The more information you can provide Student Tech with the situation in which you encountered the problem, including any error messages you received, the more able they will be to help you.

Cheating and Plagiarism Course Policy: Any student who engages in academic misconduct including cheating and plagiarism on any assignment, quiz, or exam will receive a grade of "F" for the entire course. No exceptions. It is the responsibility of the student to understand what plagiarism is, how to avoid it, and how to properly cite your sources. Additional information is available at Student Conduct. **Any work presented using previous assignments from other classes/projects is considered academic dishonesty and will not be accepted as gradable material. If you are caught plagiarizing, you will receive a grade of "F" for the entire course. Similarly, if you are caught cheating on an exam, you will receive a grade of "F" for the entire course.**

Anti-Plagiarism Software: Any written assignment that you complete in this course will be processed using the anti-plagiarism software. This software is integrated with Canvas and will give you a similarity score for your assignments that will be visible to both you and your professor. If there are instances where your writing is similar to, or matches against, a source within the database, it will be flag for your professor to review. **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.**

University of Texas at Arlington Institutional Policies

UTA students are encouraged to review the below institutional policies and informational sections and reach out to the specific office with any questions. To view this institutional information, please visit the Institutional Information page (https://resources.uta.edu/provost/course-related-info/institutional-policies.php) which includes the following policies among others:

- Drop Policy
- Disability Accommodations
- Non-Discrimination Policy
- Title IX Policy
- Academic Integrity
- Student Feedback Survey
- Final Exam Schedule
- Counseling and Psychological Services (CAPS)
- Student Support Services

Mandatory Face Covering Policy: All students and instructional staff are required to wear facial coverings while they are on campus, inside buildings and classrooms. Students that fail to comply with the facial covering requirement will be asked to leave the class session. If students need masks, they may obtain them at the Central Library, the E.H. Hereford University Center's front desk or in their department. Students who refuse to wear a facial covering in class will be asked to leave the session by the instructor, and, if the student refuses to leave, they may be reported to UTA's Office of Student Conduct.

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, note that you should be aware that we can track your progress in Canvas—in fact, we can see each page you accessed and the time when that occurred. As the instructor of this section, Lecture attendance is required, and lab attendance is mandatory. However, while UT Arlington does not require instructors to take attendance in their courses, the U.S. Department of Education requires that the University have a mechanism in place to mark when Federal Student Aid recipients "begin attendance in a course." UT Arlington instructors will report when students begin attendance in a course as part of the final grading process. Specifically, when assigning a student a grade of F, faculty report must the last date a student attended their class based on evidence such as a test, participation in a class project or presentation, or an engagement online via Canvas. This date is reported to the Department of Education for federal financial aid recipients.

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 by appointment, drop-in tutoring, etutoring, supplemental instruction, mentoring (time management, study skills, etc.), success coaching, TRIO Student Support Services, and student success workshops. For additional information, please email resources@uta.edu, or view the Maverick Resources website.

University Tutorial & Supplemental Instruction (Ransom Hall 205): UTSI offers a variety of academic support services for undergraduate students, including: 60 minute one-on-one tutoring sessions, Start Strong Freshman tutoring program, and Supplemental Instruction. Office hours are Monday-Friday 8:00am-5:00pm. For more information visit www.uta.edu/utsi or call 817-272-2617.

The IDEAS Center: (https://www.uta.edu/ideas/) **(**2nd Floor of Central Library) offers **FREE** tutoring and mentoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. Students can drop in or check the schedule of available peer tutors at www.uta.edu/IDEAS, or call (817) 272-6593.

The English Writing Center (411LIBR): The Writing Center offers **FREE** tutoring in 15-, 30-, 45-, and 60-minute face-to-face and online sessions to all UTA students on any phase of their UTA coursework. Register and make appointments online at the Writing Center (https://uta.mywconline.com). Classroom visits, workshops, and specialized services for graduate students and faculty are also available. Please see Writing Center: OWL for detailed information on all our programs and services.

Library: The Library's 2nd floor Academic Plaza (http://library.uta.edu/academic-plaza) offers students a central hub of support services, including IDEAS Center, University Advising Services, Transfer UTA and various college/school advising hours. Services are available during the library's hours of operation.

Librarian to Contact: Andy Herzog (amherzog@uta.edu)

6. **Research or General Library Help:**

Ask for Help

- Academic Plaza Consultation Services (library.uta.edu/academic-plaza)
- Ask Us (ask.uta.edu/)
- Research Coaches (http://libguides.uta.edu/researchcoach)

Resources

- Library Tutorials (library.uta.edu/how-to)
- Subject and Course Research Guides (libguides.uta.edu)
- Librarians by Subject (library.uta.edu/subject-librarians)
- A to Z List of Library Databases (libguides.uta.edu/az.php)
- Course Reserves (https://uta.summon.serialssolutions.com/#!/course_reserves)
- Study Room Reservations (openroom.uta.edu/)

Emergency Phone Numbers: In case of an on-campus emergency, call the UT Arlington Police Department at **817-272-3003** (non-campus phone), **2-3003** (campus phone). You may also dial 911.

Lecture Schedule

Students are expected to attend virtual live lectures. Recordings of these sessions will be made available to students, but they are not a substitute to attending class as the information is needed to successfully complete lab assignments.

Week	Date	Lecture Topic	Assigned Reading
1	**Module 1**		
	M 6/7	Introduction to Research Design	McBride Ch.1
	T 6/8	Data Collection Techniques	McBride Ch.4
		Scientific Writing- APA Format	McBride Ch.8; APA Manual Ch.2
	W 6/9	Defining Variables & Scales of Measurement	McBride Ch.5; Gravetter Ch.1
	TH 6/10	Frequency Distributions	McBride Ch.7; Gravetter Ch.2
		Measures of Central Tendency	McBride Ch.7; Gravetter Ch.3
2	M 6/14	Measures of Variability	McBride Ch.7; Gravetter Ch.4
	T 6/15	*z*-scores & Types of Distributions	Gravetter Ch.5
	W 6/16	**Exam 1: Part 1- Multiple Choice [Available on Canvas 6AM — 11:59PM, June 16]**	
	Module 2		
	TH 6/17	Probability & Samples	Gravetter Ch.6 & 7
3	M 6/21	Probability	McBride Ch.6; Gravetter Ch.7
	T 6/22	Hypothesis Development & Testing	McBride Ch.2 & 7; Gravetter Ch.8
	W 6/23	Two-Tailed and One-Tailed Hypothesis Test	McBride Ch.7; Gravetter Ch.8
	TH 6/24	*z*-test & Confidence Intervals	McBride Ch.7; Gravetter Ch.8
4	M 6/28	Effect Size and Statistical Power	Gravetter Ch.8
	T 6/29	**Exam 2: Part 1- Multiple Choice [Available on Canvas 6AM — 11:59PM, June 29]**	
	Module 3		
	W 6/30	Ethical Guidelines	McBride Ch.3
	TH 7/1	Correlation & Coefficient of Determinations	McBride Ch.9 pgs. 239-247 & 11; Gravetter Ch.14
5	M 7/5	Correlations & Prediction	McBride Ch.11; Gravetter Ch.14
	T 7/6	Chi-Square Goodness of Fit	Gravetter Ch.15
	W 7/7	Chi-Square Test of Independence	McBride Ch.9 pgs. 239-247 & 11; Gravetter Ch.15
	TH 7/8	**Exam 3: Part 1- Multiple Choice [Available on Canvas 6AM — 11:59PM, July 8]**	

Lab Schedule

All ICAs, Assignments and Manuscript Assignments will be submitted on Canvas under the respective assignment page. Manuscript Assignment will be submitted on Canvas and screened for plagiarism.

Lab	Date	Lab Topic	Lab Exercise	Assignment Due
Module 1				
1	6/8	Using Canvas – Using the Library Semester Project Discussion: Reporting Research	ICA #1: Scientific Thinking/Library Research ICA #2: APA – Title/Method Activity ICA #3: Plagiarism	
2	6/10	Using Excel & SPSS: Bar Graph Practice Frequency Distributions	ICA #4: Frequency Distributions & Central Tendency	Assignment #1: Scientific Thinking & Research Compliance Assignment #2: Library Resources Assignment #3: Plagiarism
Manuscript Assignment #1: Title/Method due Monday, June 14 at 11:59PM on Canvas				
3	6/15	Understanding Measures of Variability and *z*-scores Exam 1 Review	ICA #5: Variability & *z*-scores	Assignment #4: Frequency Distributions/Central Tendency Assignment #5: Variability & *z*-scores
Exam 1: Part 2-Word Problems [Available on Canvas 12:30PM June 15 — 11:59PM, June 17]				
Module 2				
4	6/17	Revisit Hypothesis for Manuscript	ICA #6: Introduction/References	
5	6/22	Data Collection and Management Probability	ICA #7: Probability/Bar Graphs	
6	6/24	Hypothesis Test with *z*-test	ICA #8: Hypothesis Testing Using the *z*-test	Assignment #6: Probability/Sample Distributions
Manuscript Assignment #2: Introduction/References due Monday, June 28 at 11:59PM on Canvas				
7	6/29	Exam 2 Review	ICA #10: APA- Results/Discussion	Assignment #7: Hypothesis Testing Using the *z*-test
Exam 2: Part 2-Word Problems [Available on Canvas 12:30PM June 29 — 11:59PM, July 1]				
Module 3				
8	7/1	Manuscript Project Data Analyses	ICA #9: Correlation/Inter-Rater Reliability/Scatterplots	
Manuscript Assignment #3: Results/Discussion/Figure due on Monday, July 5 at 11:59PM on Canvas				
9	7/6	Chi-Square Test of Independence Chi-Square Goodness of Fit	ICA #11: Nonparametric Testing Using Chi-Square Goodness of Fit/Abstracts	Assignment #8: Correlation/Inter-Rater Reliability/Scatterplots
Exam 3: Part 2-Word Problems [Available on Canvas 12:30PM July 6 — 11:59PM, July 8]				
10	7/8	**No Lab**		Assignment #9: Chi-Square Goodness of Fit Assignment #10: Chi-Square Test of Independence Assignment #11: End of Semester Progress Report