I BASIC INFORMATION

Instructors: Dr. Lauri Jensen-Campbell
Office: LS 406
Phone: Dr. Jensen-Campbell: 817-272-5191 (please no voicemail)
E-Mail: lcampbell@uta.edu
Faculty Profile: https://www.uta.edu/profiles/lauri-jensen-campbell
Office hours: Lauri Jensen-Campbell: Tuesdays and Thursdays 8:00-9:20A (appointments preferred)
Meeting Place & Time: LS 318; Tuesdays and Thursdays 9:30-10:50a
GTAs: Norma Garza/Adrian Abellanoza
GTAs E-Mail norma.garza2@mavs.uta.edu/ adrian.abellanoza@mavs.uta.edu
GTAs Office Hours: Norma Garza (LS407): Mondays 12:00-2:00p or by appointment
Adrian Abellanoza (LS404): Mondays 2:00p – 4:00p by appointment
Lab Meeting Time: Mondays 4:00PM – 6:50PM (LS 318)

II PURPOSE

Course Description: This course is an intermediate course in graduate statistics that is intended to provide a graduate level overview of advanced analysis of variance procedures and multiple regression procedures. Students should already be familiar with the computation of elementary statistics and such concepts as sampling distributions and statistical hypothesis testing. The course will emphasize the conceptual underpinnings of the techniques rather than mathematical computations.

Course Learning Goals and Objectives: This course is designed to provide hands-on experience in conducting analyses with SPSS-X and JASP. Computer applications of the statistical techniques that are covered will be emphasized. Homework exercises will be included to illustrate designs, analyze data, and provide experience in writing in APA style. Of course, it is impossible to touch upon all statistical issues related to these topics. However, in combination with the readings, we will obtain an overview of the statistical techniques used in more advanced analysis of variance models and regression analyses.

III COURSE REQUIREMENTS

REQUIRED TEXTS

ADDITIONAL REQUIRED READINGS

There may be additional required readings assigned throughout the semester that are not part of your required textbook.

REQUIRED CLASS AND LAB EQUIPMENT

**REEF Polling**: You will need to **purchase** a license to REEF ([https://app.reef-education.com/#/login](https://app.reef-education.com/#/login)) and install it on a device that supports a web browser, which you will be bringing to EVERY class and lab. These devices include laptops, iOS, Android and Windows mobile devices. My preference is that you use it on a smart phone or ipad/tablet. The only device it does not support is a Blackberry. You will be using this application for in-class and in-lab participation, attendance, and weekly quizzes. It is your responsibility to have the application loaded on a device and ready for use by **Thursday, January 24**.

EXAMS

There will be two examinations that will each be given in two parts. You will be given questions that assess your conceptual knowledge of the concepts that were covered in class and in lab. In addition, you will be provided with data sets and required to analyze and interpret the data. You will be required to write up your answers in APA style. Although the exams will be open-note/open book, if you do not know the concepts by the time of the examination, you will not pass the exams. You are not allowed to plagiarize materials or consult your classmates when answering questions.

Exams will be essay format and will be open-note. The statistical computation portion will be taken in lab; the conceptual portion of the exam will be taken in Blackboard.

When taking the conceptual portion of the examinations on Blackboard, you will be taking them with Respondus Lockdown Browser and Monitor. **Respondus LockDown Browser** is a custom browser that locks down the testing environment in Blackboard. **Respondus Monitor**, a webcam feature for LockDown Browser, records students during online, non-proctored exams.

As such, you will need a webcam and the Respondus software downloaded on your computer or use of a lab on-campus that has Respondus. Before you start your exam, you are to hold up your student ID so I can compare the ID to the person taking the exam. You CANNOT communicate with other people during the exam. Please stay in your seat until the exam is complete. If an interruption occurs, briefly explain what happened by speaking directly to your webcam. And, finally, remember that you cannot exit the exam until all questions are completed and submitted it for grading.

All exams will be graded anonymously. As such, please do not put any identifiers in your answers or in your file names.

LAB/HOMEWORK

Lab attendance is mandatory. You are expected to be in lab for the entire class period. By the time you come to lab, you should have carefully read your assignments and reviewed your class lecture notes where applicable. Lab is meant to be more of a hands-on experience (e.g., flipped classroom) so students should be prepared to undertake activities on the topic to be covered.
In addition to individual homework, you will have weekly in-lab group assignments that are due at the end of lab. Each student has been assigned to a lab group of 4 students prior to the semester beginning. **THERE ARE NO MAKE-UPS.** If you are not present for the lab assignment, it will be a 0 (even if your group completes the assignment without you).

Each homework assignment will be completed by the following week in which it is assigned. All homework assignments will be submitted via Blackboard by 11:59P on the date that it is due. No late assignments will be accepted.

Lab assignments will be graded out of 100 points. Groups who have an average of 95% for their in-class assignments will receive 95 points, and so forth.

Each of the 10 homework assignments are worth 10 points for a maximum possible of 100 points.

**PARTICIPATION/QUIZZES**

All students are responsible for reading the assigned materials *prior* to class and coming to class and lab prepared to discuss the materials. As such, you will have weekly quizzes over the readings, lab, and/or class lectures. Some of the questions on the quizzes may even be taken straight from homework questions. Quiz points will be based on the percent correct. For example, only students who get 100% of their quiz answers right will receive the full 50 points. Students who have a quiz average of 95% will receive 47.5 points, and so forth. Quizzes may be given in either class or lab or both. Some quizzes may be weighted more than other quizzes.

You will also be required to participate in class. There are two ways to obtain participation points. First, a total of 15 points will be assigned for participation in class discussion questions (via i>clicker go) and in-class and in-lab assignments. Participation points will be based on the percent of participation. For example, only students who participate 100% of the time, will receive the full 15 points. Students who participate 95% of the time will receive 9.5 points, and so forth.

The second form will occur at the beginning of class for which the required reading is indicated and consists of class members being called on at random to answer one of a generally fixed type of question regarding the reading. Each student will get two of these opportunities over the course of the semester. If you are late or do not come to the class in which you are called upon, you will receive a score of zero. Each question will be graded out of 5 points for a total of 10 points. **There will be no “make-ups” for attendance or class participation (for any reason).**

**ATTENDANCE**

At the University of Texas at Arlington, taking attendance is not required but attendance is a critical indicator in student success. Each faculty member is free to develop his or her own methods of evaluating students’ academic performance, which includes establishing course-specific policies on attendance. **As the instructor of this section, I have established the following attendance policy:** Attendance is MANDATORY for both lecture and lab. It is your responsibility to attend the ENTIRE class/lab and **not be late.** This is NOT a correspondence course (i.e., a distance education course); thus, you are expected to be in class and to
participate in class. There is no distinction between excused and unexcused absences in the class. You are either present or you are not present. Excessive absences for any reason will adversely affect your grade. In addition, there are no make-ups for in-class assignments, in-lab assignments, participation, or quizzes. If you miss an assignment in class, you will receive a 0 for that assignment.

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 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 Blackboard. This date is reported to the Department of Education for federal financial aid recipients.

**EXPECTATIONS FOR OUT-OF-CLASS STUDY**

A general rule of thumb is this: for every credit hour earned, an undergraduate student should spend 3 hours per week working outside of class during a regular 15-week semester. Hence, a 4-credit course might have a minimum expectation of 12 hours of reading, study, etc. each week for a 15-week semester. Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 12 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, taking exams, doing out-of-class assignments, etc.

**IV TENTATIVE POINT DISTRIBUTION AND GRADING POLICY**

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**GRADING**

- 90% - up A
- 80% - 89% B
- 70% - 79% C
- 65% - 69% D
- Below 65% F
I wish to acknowledge the help of Leona Aiken during the preparation of the course. Portions of Leona Aiken’s notes may be used in the PowerPoint presentations. This material is copyrighted and will be acknowledged as (Aiken, 2000) when used in the PowerPoint presentations. All notes, handouts, and data sets are the property of the instructor, are being copyrighted, and are for student use only.

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

Grade Grievances: Any appeal of a grade in this course must follow the procedures and deadlines for grade-related grievances as published in the current University Catalog. For graduate courses, see http://catalog.uta.edu/academicregulations/grades/#graduatetext. For student complaints, see http://www.uta.edu/deanofstudents/student-complaints/index.php.

Drop Policy: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student’s responsibility to officially withdraw if they do not plan to attend after registering. Students will not be automatically dropped for non-attendance. Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. For more information, contact the Office of Financial Aid and Scholarships (http://wweb.uta.edu/aao/fao/).

Disability Accommodations: UT Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including The Americans with Disabilities Act (ADA), The Americans with Disabilities Amendments Act (ADAAA), and Section 504 of the Rehabilitation Act. All instructors at UT Arlington are required by law to provide “reasonable accommodations” to students with disabilities, so as not to discriminate on the basis of disability. Students are responsible for providing the instructor with official notification in the form of a letter certified by the Office for Students with Disabilities (OSD) during Office Hours. Only those students who have officially documented a need for an accommodation will have their request honored. Students experiencing a range of conditions (Physical, Learning, Chronic Health, Mental Health, and Sensory) that may cause diminished academic performance or other barriers to learning may seek services and/or accommodations by contacting:

The Office for Students with Disabilities, (OSD) www.uta.edu/disability or calling 817-272-3364. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability.
COUNSELING AND PSYCHOLOGICAL SERVICES, (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

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

• The IDEAS Center (2nd Floor of Central Library) offers FREE tutoring to all students with a focus on transfer students, sophomores, veterans and others undergoing a transition to UT Arlington. 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 https://uta.mywconline.com. Classroom visits, workshops, and specialized services for graduate students and faculty are also available. Please see www.uta.edu/owl for detailed information on all our programs and services.

• The Library’s 2nd floor 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. http://library.uta.edu/academic-plaza

Librarian to Contact: Psychology: Leni Matthews, leni@uta.edu, 817-272-6519

Counseling and Psychological Services, (CAPS) www.uta.edu/caps/ or calling 817-272-3671 is also available to all students to help increase their understanding of personal issues, address mental and behavioral health problems and make positive changes in their lives.

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

Title IX Policy: The University of Texas at Arlington (“University”) is committed to maintaining a learning and working environment that is free from discrimination based on sex in accordance with Title IX of the Higher Education Amendments of 1972 (Title IX), which prohibits discrimination on the basis of sex in educational programs or activities; Title VII of the Civil Rights Act of 1964 (Title VII), which prohibits sex discrimination in employment; and the Campus Sexual Violence Elimination Act (SaVE Act). Sexual misconduct is a form of sex discrimination and will not be tolerated. For
information regarding Title IX, visit www.uta.edu/titleIX or contact Ms. Jean Hood, Vice President and Title IX Coordinator at (817) 272-7091 or jmhood@uta.edu.

Academic Integrity: Students enrolled all UT Arlington courses are expected to adhere to the UT Arlington Honor Code:

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

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

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

ELECTRONIC DEVICES AND COMMUNICATION

ELECTRONIC DEVICES: The use of any electronic devices (e.g., laptops, smart phones, smart watches, tablets) for phone calls, texting, surfing, or any other purpose besides statistics is not permitted during class. Ring tones are to be turned off (or set to silent/vibrate) prior to the beginning of class. If you are expecting an emergency phone call or text, you must notify the professor prior to the beginning of class so that special accommodations can be made. Students who use an electronic device during class without professor permission may be dismissed from class for the rest of the class period.

No taping, filming, or photography in class without my prior permission (whether by camera, cell phone, or other means). These activities are distracting and inhibiting to faculty and other students, may infringe upon privacy or copyright, and have a chilling effect on classroom discussion. Additionally, you will fail this course if you are caught widely sharing such materials (e.g., posting such materials to social media)

ELECTRONIC COMMUNICATION: UT Arlington has adopted MavMail as its official means to communicate with students about important deadlines and events, as well as to transact university-related business regarding financial aid, tuition, grades, graduation, etc. All students are assigned a MavMail account and are responsible for checking the inbox regularly. There is no additional charge to students for using this account, which remains active even after graduation. Information about activating and using MavMail is available at http://www.uta.edu/oit/cs/email/mavmail.php. If you are unable to resolve your issue from the Self-Service website, contact the Helpdesk at helpdesk@uta.edu. Important e-mails will be sent to you via Blackboard so you will need to check your UT Arlington e-mail account regularly.

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

When communicating with faculty members, GTAs, and other professionals, you are expected to communicate in a professional and formal manner. This includes addressing your audience using their proper title, using proper grammar, and using proper spelling. Indeed, how you deliver your message is often as important as the message itself.

- Email communication should also be courteous and respectful in manner and tone. Do not send emails that are curt or demanding.
- Do not expect an immediate response via email (normally, a response will be sent within two business days). If your email a question is sent at the last minute it may not be possible to send you a response before an assignment is due or a test is given
- E-mail queries that are already covered in the syllabus will not be answered.

COMMON COURTESY

- When class begins, please stop your conversations.
- Wait until class is completely over before putting your materials away in your backpack, standing up, or talking to your friends.
- Food and drink are discouraged in class (this includes gum and candy). There are times that you need a beverage or small snack during class. Avoid bringing in large meals or food that is noisy when unpackaged or chewed.
- Show respect for fellow classmates. Do not interrupt another who is speaking. It is okay to disagree with an idea but not okay to ridicule or make fun of another person and his/her ideas. Raised voices, derogatory language, name-calling, and intimidating behavior will NOT be tolerated.
- Do not disturb others by engaging in disruptive behavior. Disruption interferes with the learning environment and impairs the ability of others to focus, participate, and engage.

Student Feedback Survey: At the end of each term, students enrolled in face-to-face and online classes categorized as “lecture,” “seminar,” or “laboratory” are directed to complete an online Student Feedback Survey (SFS). Instructions on how to access the SFS for this course will be sent directly to each student through MavMail approximately 10 days before the end of the term. Each student’s feedback via the SFS database is aggregated with that of other students enrolled in the course. Students’ anonymity will be protected to the extent that the law allows. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law and aggregate results are posted online. Data from SFS is also used for faculty and program evaluations. For more information, visit http://www.uta.edu/sfs.

Final Review Week: for semester-long courses, a period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a
completion date during or following this week **unless specified in the class syllabus**. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week. During this week, classes are held as scheduled. In addition, instructors are not required to limit content to topics that have been previously covered; they may introduce new concepts as appropriate.

**Emergency Exit Procedures**: Should we experience an emergency event that requires us to vacate the building, students should exit the room and move toward the nearest exit, which is located to the left of our door. When exiting the building during an emergency, one should never take an elevator but should use the stairwells. Faculty members and instructional staff will assist students in selecting the safest route for evacuation and will make arrangements to assist individuals with disabilities. Evacuation plans may be found at [http://www.uta.edu/campus-ops/ehs/fire/Evac_Maps_Buildings.php](http://www.uta.edu/campus-ops/ehs/fire/Evac_Maps_Buildings.php).

Students should also be encouraged to subscribe to the MavAlert system that will send information in case of an emergency to their cell phones or email accounts. Anyone can subscribe at [https://mavalert.uta.edu/](https://mavalert.uta.edu/) or [https://mavalert.uta.edu/register.php](https://mavalert.uta.edu/register.php).

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**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. Non-emergency number 817-272-3381.
**V COURSE OUTLINE**

*As the instructor for this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course. – Lauri A. Jensen-Campbell.*

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<tr>
<th>WK</th>
<th>Date</th>
<th>Lecture Topic</th>
<th>Reading Assignments (Additional Readings will be added throughout the semester)</th>
<th>Date:</th>
<th>Lab Exercises/Assignments</th>
<th>Assignment Due</th>
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| 1  | T 1/15 | Review of Basic ANOVA Designs | T&F – Chapters 1-3  
Field – Chapters 11, 13, 14, & 15 | M 1/21 | No Lab – Continue Review of ANOVA and READ ANCOVA Assignments |               |
|    | R 1/17 |               |                                                                                  |       |                          |               |
| 2  | T 1/22 | Analysis of Covariance (ANCOVA) | T & F Chapter 6  
Field – Chapter 13 (5th ed) | M 1/28 | REVIEW OF ANOVA DESIGNS | No HW |
|    | R 1/24 |               |                                                                                  |       |                          |               |
| 3  | T 1/29 | Multivariate Analysis of Variance (MANOVA) | T & F Chapter 7  
Field – Chapter 17 (5th ed) | M 2/4 | ANCOVA | HW1: Review of ANOVA |
|    | R 1/31 |               |                                                                                  |       |                          |               |
| 4 | T 2/5       | Discriminant Analysis | T&F – Chapter 9 | M 2/11 | MANOVA | HW2: ANCOVA HW DUE |
|   | R 2/7       |                        |                |        |        |                  |
| 5 | T 2/12      | Cluster Analysis       | Norušis, 2009  | M 2/18 | Discriminant Function Analysis | HW3: MANOVA HW DUE |
|   | R 2/14      |                        | Field – Cluster Chapter (will be provided) |        |        |                  |

**REGRESSION AND MULTI-LEVEL MODELING**

<p>| 6 | T 2/19      | Two Predictor Multiple Regression/Partial Relationships | CCWA – Chapters 1-3, T&amp;F – Chapter 5 | M 2/25 | Cluster Analysis | HW4: DFA HW DUE |
|   | R 2/21      |                                                      | Field – Chapter 9 (5th ed)          |        |        |                  |
| 7 | T 2/26      | Assumptions of Regression I                          | CCWA – Chapters 4, 10, 11           | M 3/4  | Midterm Review  | HW5: Cluster Analysis HW DUE |
|   | R 2/28      |                                                      |                                  |        |        |                  |</p>
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<td>M 3/18</td>
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| 12 | T 4/2 | Logistic Regression | CCWA – Chapter 13  
T&F – Chapter 10  
Field – Chapter 20 (5th ed) | M 4/8 | Cross-Validation | H7: Multiple Regression  
HW Due |
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| 13 | T 4/9 | Interactions Among Continuous Variables | CCWA – Chapters 7  
Field – Chapter 9 | M 4/15 | Categorical Predictors | HW8: Cross-Validation  
HW Due |
| R 4/11 |       |                   |                                 |      |                 |                 |
| 14 | T 4/16 | Interactions Among Categorical Variables | CCWA – Chapter 9 (5th ed) | M 4/22 | Logistic Regression | HW9: Categorical Predictors  
HW Due |
| R 4/18 |       |                   |                                 |      |                 |                 |
| 15 | T 4/23 | Review/Catch-up |                                 | M 4/29 | Final Review | HW10: Logistic Regression Due |
| R 4/25 |       |                   |                                 |      |                 |                 |
| 16 | T 4/30 | Lab Portion of Exam (Problems will be given on both days)  
Conceptual Portion opens in Blackboard |                                 |      |                 |                 |
| R 5/2 |       |                   |                                 |      |                 |                 |
| R 5/9 |       | FINAL EXAM – PART II DUE ON BLACKBOARD at 1:30P |                                 |      |                 |                 |