Instructor: Dr. Mark Ricard
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E-Mail: ricard@uta.edu
Office Phone: (817) 272-0764
Lab Phone: (817) 272-9185

Faculty Profile: https://www.uta.edu/mentis/profile/?445

Office Hours: By appointment

Location & Time: Fine Arts (FA) room 412, Wednesday, 5:00 PM – 7:50 PM.


Suggested SPSS Software: Students are highly encouraged to get a 6 month rental of IBM SPSS Statistics Standard GradPack. It is available for both Mac and PC at this link: https://estore.onthehub.com/WebStore/OfferingsOfMajorVersionList.aspx?pmv=12c7bd0a-436e-e511-9411-b8ca3a5db7a1&cmi_mnuMain=2ff73789-74c7-e011-ae14-f04da23e67f6&cmi_mnuMain_child=2a1143f0-74c7-e011-ae14-f04da23e67f6

Course Description: KINE 5305 Applied Statistical Principles in Kinesiology (3-0) The course covers descriptive statistics, t-tests, ANOVA, repeated measures ANOVA, ANCOVA, correlation, intraclass correlation, multiple regression, log-linear regression and non-parametric statistics.

Student Learning Outcomes:
Upon successful course completion, students will demonstrate:
1. Their knowledge of the assumptions, violations and implementation of the following statistical procedures: correlation, t-test, ANOVA, ANCOVA, linear regression, multiple regression and intraclass correlation.
2. Their ability to interpret a research design, choose and run the appropriate statistical procedure, synthesize the statistical output and write a results section of a manuscript based upon the statistical output.

Grading
As a policy of the University of Texas at Arlington (UTA) outlined in the official Graduate Catalog, graduate credit will be given for grades of A, B, or C (as well as P) for work done at UTA, subject to the following conditions:
1. The student must maintain a B average in all work done in the major.
2. The student must maintain a B average in all work done in the minor.
3. The student must maintain a B average in all advanced work.

Grades in this course will be based on the following percentages:

Exams (2): 90%
Assignments: 10%

Attendance Policy: 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 course I will not take attendance.

Expectations for Out-of-Class Study: Beyond the time required to attend each class meeting, students enrolled in this course should expect to spend at least an additional 9 hours per week of their own time in course-related activities, including reading required materials, completing assignments, preparing for exams, etc.
**Make-up Exams:** If you miss an exam due to illness or a planned trip it is your responsibility to arrange a make-up exam.

**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 graduate catalog. For graduate courses, see [http://grad.pci.uta.edu/about/catalog/current/general/regulations/#grievances](http://grad.pci.uta.edu/about/catalog/current/general/regulations/#grievances).

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<th>Chapter(s)</th>
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<tr>
<td>1</td>
<td>8-31</td>
<td>Chapter 1: Why learn statistics</td>
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<td>Chapter 2: Statistical modeling</td>
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<td>Chapter 3: The SPSS environment</td>
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<td>2</td>
<td>9-7</td>
<td>Chapter 5: Exploring assumptions</td>
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<td>Chapter 7: Correlation</td>
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<td>Chapter 7: Spearman and Kendall’s Tau (non-parametric)</td>
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<td>3</td>
<td>9-14</td>
<td>Chapter 8: Multiple Linear Regression</td>
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<td>Chapter 8: Non-Linear Regression</td>
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<td>9-21</td>
<td>Chapter 9: Comparing two means</td>
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<td>Chapter 6.4 &amp; 6.5: Wilcoxon and Mann-Whitney U (non-parametric)</td>
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<td>5</td>
<td>9-28</td>
<td>Chapter 11: Comparing several means ANOVA (GLM 1)</td>
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<td>Chapter 6.6: Kruskal-Wallis</td>
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<td>Mid Term Exam</td>
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<td>8</td>
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<td>Chapter 12: Analysis of covariance ANCOVA (GLM 2)</td>
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<td>Chapter 13: Factorial ANOVA (GLM 3)</td>
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<td>Chapter 14: Repeated Measures ANOVA (GLM 4)</td>
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<td>Chapter 6.7: Friedman (non-parametric)</td>
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<td>11</td>
<td>11-9</td>
<td>Chapter 15: Mixed design ANOVA (GLM 5)</td>
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<td>11-16</td>
<td>Chapter 19: Linear mixed models</td>
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<td>Modeling underlying variance – covariance structures</td>
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<td>13</td>
<td>11-30</td>
<td>Chapter 19: Linear mixed models</td>
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<td>Modeling underlying variance – covariance structures</td>
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<tr>
<td>14</td>
<td>12-7</td>
<td>Review for Final Exam</td>
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<td>15</td>
<td>12-14</td>
<td>Final Exam</td>
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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. –Mark D. Ricard

**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/](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). 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.

Americans with Disabilities Act: The University of Texas at 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). 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 that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.

Academic Integrity: Students enrolled in this course 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 as they see fit in their courses, including (but not limited to) 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.

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/universitycollege/resources/index.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. To schedule an appointment with a peer tutor or mentor email IDEAS@uta.edu or call (817) 272-6593.

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.

**Student Feedback Survey:** At the end of each term, students enrolled in classes categorized as “lecture,” “seminar,” or “laboratory” shall be 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 enters the SFS database anonymously and is aggregated with that of other students enrolled in the course. UT Arlington’s effort to solicit, gather, tabulate, and publish student feedback is required by state law; students are strongly urged to participate. For more information, visit http://www.uta.edu/sfs.

**Final Review Week:** 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.

**Library Information**

- **Library Home Page**........................................  http://www.uta.edu/library
- **Subject Guides** .............................................  http://libguides.uta.edu
- **Subject Librarians** ..........................................  http://www.uta.edu/library/help/subject-librarians.php
- **Database List** .................................................  http://www.uta.edu/library/databases/index.php
- **Course Reserves** .............................................  http://pulse.uta.edu/vwebv/enterCourseReserve.do
- **Library Tutorials** .............................................  http://www.uta.edu/library/help/tutorials.php
- **Connecting from Off- Campus** .......................  http://libguides.uta.edu/offcampus
- **Ask A Librarian** ..............................................  http://ask.uta.edu

The following URL houses a page where we have gathered many commonly used resources needed by students in online courses: http://www.uta.edu/library/services/distance.php.

The subject librarian for your area can work with you to build a customized course page to support your class if you wish. For examples, visit http://libguides.uta.edu/os and http://libguides.uta.edu/pols2311fm. If you have any questions, please feel free to contact Suzanne Beckett, at sbeckett@uta.edu or at 817.272.0923.

**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.*

**Writing Center:** The Writing Center, 411 Central Library, offers individual 40 minute sessions to review assignments, *Quick Hits* (5-10 minute quick answers to questions), and workshops on grammar and specific
writing projects. Visit https://uta.mywconline.com/ to register and make appointments. For hours, information about the writing workshops we offer, scheduling a classroom visit, and descriptions of the services we offer undergraduates, graduate students, and faculty members, please visit our website at www.uta.edu/owl/.

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 on each side of FA 412. 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 handicapped individuals.

| 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. |

Library Home Page library.uta.edu

Resources for Students

Academic Help

Academic Plaza Consultation Services library.uta.edu/academic-plaza

Ask Us ask.uta.edu/

Library Tutorials library.uta.edu/how-to

Subject and Course Research Guides libguides.uta.edu

Subject Librarians library.uta.edu/subject-librarians

Resources

A to Z List of Library Databases libguides.uta.edu/az.php

Course Reserves pulse.uta.edu/vwebv/enterCourseReserve.do

FabLab fablab.uta.edu/

Special Collections library.uta.edu/special-collections

Study Room Reservations openroom.uta.edu/

Teaching & Learning Services for Faculty

Copyright Consultation library-sc@listserv.uta.edu

Course Research Guide Development, Andy Herzog amherzog@uta.edu or your subject librarian

Data Visualization Instruction, Peace Ossom-Williamson peace@uta.edu

Digital Humanities Instruction, Rafia Mirza rafia@uta.edu
Graduate Student Research Skills Instruction, Andy Herzog  amherzog@uta.edu or your subject librarian

Project or Problem-Based Instruction, Gretchen Trkay  gtrkay@uta.edu

Undergraduate Research Skills Instruction, Gretchen Trkay gtrkay@uta.edu or your subject librarian.