



**HPK 617 Statistical Procedures in Health & Human Performance**  
**Summer II 2022: July 11 – August 11**  
**Section 01W; 3 semester hours**

**Instructor: Sarah M. Mitchell, PhD, ATC, LAT**

Office Location: Nursing & Health Sciences 118

Office Hours: Available via phone or email

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Preferred Form of Communication: Email

Communication Response Time: 24-48 hours

**COURSE INFORMATION**

**Textbook:** Weir, J. P. & Vincent, W.J. (2021). *Statistics in kinesiology*. 5th edition. Human Kinetics: Champaign, IL.

**Materials:** provided within the course. **Note:** This course is delivered fully online and will require the ability to interact with YouTube videos. Many school districts block the use of YouTube. Throughout the end of this course (and heavily towards the end) we will utilize a piece of software known as ***Statistical Packages for the Social Sciences (SPSS)***. This software is available in the university open computer labs. Many students purchase a student version of the software. Others have SPSS available where they work. You should utilize version SPSS 16 or higher.

**Course Description**

This course provides an introduction to statistical methods and their implications for health and human performance- specific situations as well as educational researchers. Appropriate computer applications will be integrated with classroom content relating to populations and samples; organizing, displaying, and summarizing data; probability; normal distribution; tests of significance; correlation and simple regression; Z and T tests; and the chi square test. (3 credit hours)

**Student Learning Outcomes**

1. Describe the nature of probability and statistics.
2. Organize data using distribution curves; explain the normal distribution.
3. Describe data via statistical processes.
4. Utilize confidence intervals based on sample size.
5. Perform hypothesis testing.
6. Apply statistical methods to and evaluate various forms of human performance data.
7. Effectively use SPSS to perform statistical calculations.
8. Critique statistical methods

*The syllabus/schedule are subject to change.*

## COURSE REQUIREMENTS

### Minimal Technical Skills Needed

Students must have working knowledge of and know how to use the MyLeo Online: D2L Brightspace learning management system, and Microsoft Word/Excel/PowerPoint. Students must utilize their University assigned email (Leo mail) for all course communications. All email communication from the instructor will be sent to the student's Leo mail.

### Student Responsibilities or Tips for Success in the Course

Students can expect to do well in this course when they log into the online course often, complete all assignments/quizzes/exams/discussions, and seek assistance when they do not understand course material. Students should also utilize all course resources provided through D2L, such as, course lecture notes, assignments, and course information. It is the students responsibly to have internet access, check this site frequently, and become familiar with how it works.

### Grading

Each assignment will be worth a pre-determined amount of points. Upon the completion of the course, grades will be calculated by adding up the total number of points each student has earned and dividing it by the total amount of points available in the course. This will produce a percentage of points earned (Ex. Student earned 850 points out a possible 1000 in the course:  $850/1000 = 85\%$  "B"). Grades will be assigned based upon the percentages below.

	Grading Scale: A = 90-100%
Module Exams: 50 points each	B = 80-89%
Reflections: 20 points each	C = 70-79%
Group Assignments: 30 points each	D = 60-69%
Discussion: 20 points	F = 0-59
Total Points = 920	

Students are expected to earn points toward their final grade during the course of the semester with the assignments and exams that are scheduled. Extra Credit Assignments WILL NOT be given at the end of the semester. All students are graded based on the exact same criteria and no exceptions will be made for individual assignments, tests, or final point values.

Student assignments will be graded in a timely manner, typically within one week of the assignment due date. Any questions or concerns about assignments/grades should be brought to the instructor's attention immediately (i.e. Do not wait until the end of the semester)

## ASSESSMENTS

### Module Exams (50% of final grade)

A grade up to 50 points can be earned on the lesson module exams. Please keep in mind that this is a master's level research tools course. When you take the exams, make notes regarding the questions and your responses. Students are responsible for determining the accuracy of your answers. Students

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are also responsible for the identification of reasons a particular question may have been missed. Take responsibility for your learning. Work with and through your study group to master the material.

### **Reflections (20% of final grade)**

Each module will require that you submit reflections as a Word document.

### **Group Assignments (30% of final grade)**

Students will create their own groups. The group should establish rules of operation and hold every member accountable. Please indicate on the first page of the project the names of those who participated, as well as, the module for which the project is intended. Group assignments will be awarded a grade ranging from 30 downward. Students are strongly encouraged to collaborate to master the concepts and exams.

Establish rules for the operation for your group. Hold every member accountable. Do not cover for anyone who does not participate! Each group is free to go through the stages of storming, forming, and norming. I suggest getting to the norming stage as quickly as possible. **DO NOT LET A NON-PARTICIPANT HOLD BACK THE PROGRESS OF YOUR GROUP.** Set due dates and require all members of the group to comply. I know that working in groups is frustrating; however, the modern workplace is about group work. Teaming is a critical skill for success in today's world.

## **TECHNOLOGY REQUIREMENTS**

### **LMS**

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are technical requirements.

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

### **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](mailto:helpdesk@tamuc.edu).

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

### **Communication and Support**

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

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## Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

## Interaction with Instructor Statement

Email is the best way to contact the instructor if you need assistance with any aspect of the course. Instructor will typically respond to emails within 24 hours (except on weekends and holidays).

## COURSE UNIVERSITY PROCEDURES/POLICIES

### Attendance

This is an online course and you can work at your own pace. All assignments have deadlines which must be met; however, you can submit any assignment at any time before the deadline. It is the student's responsibility to be aware of assignment due dates as the dates are posted on D2L. In the case of missing deadlines due to unavoidable or emergency situations, or illness (including Covid), the student must promptly notify the instructor via email explaining the circumstances. Prompt notification (within three days) is required to have an absence excused; additionally, written documentation may be required to have the absence excused. Assignment deadlines may be modified for students with excused absences. Technical and/or computer problems associated with D2L are not a valid excuse for turning in an assignment late. **NO LATE ASSIGNMENTS WILL BE GRADED.**

### 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.

### 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: <https://www.britannica.com/topic/netiquette>

### 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](#)

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### [Undergraduate Student Academic Dishonesty Form](http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/documents/13.99.99.R0.03UndergraduateStudentAcademicDishonestyForm.pdf>

### [Graduate Student Academic Dishonesty Form](http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf)

<http://www.tamuc.edu/academics/graduateschool/faculty/GraduateStudentAcademicDishonestyFormold.pdf>

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

### **ADA Statement for Students with Disabilities**

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact: **Office of Student Disability Resources and Services**, Texas A&M University-Commerce; Velma K. Waters Library Rm 162; Phone (903) 886-5150 or (903) 886-5835; Fax (903) 468-8148

Email: [studentdisabilityservices@tamuc.edu](mailto:studentdisabilityservices@tamuc.edu)

Website: [Office of Student Disability Resources and Services](http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

<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](#) document and/or consult your event organizer.

Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

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

### **Counseling Center**

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.

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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](http://www.tamuc.edu/counsel)

### **COURSE OUTLINE / CALENDAR**

<b>Section</b>	<b>Due</b>
Section 1 & 2	July 18, 11:59p
Section 3 & 4	July 25, 11:59p
Section 5 & 6	August 1, 11:59p
Section 7 & 8	August 8, 11:59p
Section 9	August 11, 11:59p

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