

Syllabus
HECC 5317 BIostatistics
DEPARTMENT OF HEALTH AND KINESIOLOGY
Spring Semester 2021
traditional face-to-face or online sections

Course Dates: January 11 – May 1.

Instructor-of-record: William Sorensen, Ph.D., MSPH, MA

Office Location & Times: PAC UT Tyler Rm #3095, regular office hours but schedule a time beforehand (send instructor an e-mail to set up a time).

Phone: (903) 566-7032

E-mail: wsorensen@uttyler.edu

Required Text: Knapp H. Intermediate Statistics Using SPSS#, Sage Publications, Thousand Oaks, CA., ISBN 978-1-5063-7743-8.

Computer Software: SPSS*

Course Considerations:

The text, SPSS software, and CANVAS are the main pillars to this course. Therefore, careful reading of the assigned chapters, attention to all postings in CANVAS and constant SPSS practice should lead you to success in this course.

#Note: This text comes with online aids, like instructional videos data sets. Go to study.sagepub.com/intermediatestats

***Note:** Where can you access SPSS software? 1) if you are on the UT Tyler campus you can find it in practically any student-designated computer station: The library, the Business computer lab, the Nursing Computer lab, even the Health & Kinesiology Computer lab. 2) if you are off-campus, you may access it by navigating to one.uttyler.edu; then select the catalog tab; then open the Horizon icon (then go to Desktop); with this icon you may find SPSS and open/use it (however, analysis speed is compromised). 3) if you are off campus seriously consider renting the software to place on your computer (instructor's recommendation; you may rent from major online, rentable textbook companies, like AMAZON). If you rent, please make sure you get a decent version of SPSS (18-24) and the right format for your computer (PC or Mac).

Format: For online students the course is all online. For traditional face-face students, consider this a hybrid course where half the time a class is meeting in a classroom and half online. For both sections, Canvas is the platform for this course.

All communication and posting assignments are done through Canvas or email. Please have your Canvas notifications set so that you receive Canvas announcements automatically through your email account. Make a constant schedule whereby you log into Canvas several times each week. (Note that traditional and online students are using the same Canvas account.)

Course Catalogue Description: Study of statistical analysis of basic and clinical research data.

Course Goals: The purpose of this course is to provide some theoretical information, but mostly practical opportunity regarding statistical analysis. Opportunity will be provided for students to apply appropriate statistical procedures based upon their understanding of the *nature of the question* being asked and the type of data gathered. The student will be able to enter, manipulate, analyze and interpret output generated from the SPSS platform.

Course Objectives: To accomplish the purpose of the course the student will be able to...

1. Apply appropriate statistical procedures to the different types of data and various types of research questions.

2. Understand the theoretical bases and assumptions of basic statistical procedures.
3. Apply statistical reasoning and insight toward solving research problems.
4. Use statistical software (SPSS) to manage and manipulate data in order to make meaningful information (interpretation).
5. Read, think, and write using appropriate statistical language.

Grading:

Letter grade-percentage transposition: A: 91% - 100%
 B: 81% - 90%
 C: 71% - 80%

Grading Plan:

Exams	60 pts: 3 exams (20 pts each)
Projects	30 pts: 4 projects (6+7+8+9 pts)
Participation	10 pts: Canvas posts
TOTAL	100 points

Consider:

Much of your learning will be trial-and-error, in that you try something in SPSS, it doesn't work, and you try again, and again. It still may not working after 4 or 5 attempts. There may be an early perception of confusion early on, due to discovering the best access for SPSS, then trying and trying it, learning it or relearning it. Your best strategy to help you through these early frustrations is to:

- 1) Set aside time, ahead of time, to work the computer program, and time to read the text, according to a RIGID, WEEKLY schedule,
- 2) Be consistent in reading and practicing,
- 3) Keep your expectations reasonable; do not expect to "get" something after the first reading or first computer trial. In this sense, the course is like practicing a musical instrument (if any of you have learned to play an instrument you know how drab and frustrating this activity can be at first).

Still, after one semester, you will be able to do most of the statistical testing that is in the text, on your own, with a variety of data sets.

In addition, consider:

The motivation to learn is up to you; the instructor is a mere guide. Therefore, the text is highly pivotal in your success. Even though you will receive supplemental lectures and instruction, the TEXT MUST BE READ in a regular and timely manner, and most likely, many times over. Along with that, don't be afraid to get your feet wet by looking at a new data set, and trying an analysis procedure. Assigned text exercises are for the benefit of the student. Don't be afraid- you can't break it.

You will learn to depend on each other for help, even what little you spend with each other. Do not rely on the instructor solely to receive a response to a question; post a question in a Canvas folder, offering questions AND responses (your participation is noted by counting Canvas posts). Chime in if you are having difficulty, and help out if you suspect you found an answer. It is OK to post links to other information sources (a link to a YouTube video for example, and to write a few lines SUMMARIZING what you heard from the video). Please do not by send the instructor a private e-mail or private Canvas-message about SPSS/analysis mechanics.

Scheduled Exams & Projects:

Exams and projects will be given and received on specified dates (are fore-mentioned in the schedule, and dates/times will be fine-tuned according to future announcements). There are no make-ups to the projects or exams (Late exams or projects are not allowed; Only for extremely extenuating circumstances and even then only with prior approval of the instructor, will the student be allowed to make up a project that is missed).

Pandemic:

The instructor does not foresee a coronavirus vaccine available to students or instructors before spring break. This explains why face-face meetings have been cut back for the traditional students, but also reinforces classroom prevention behaviors while in the classroom when there is a scheduled meeting, that is: -Wear masks

-Socially distance from each other

The instructor cannot enforce traditional students from coming into or leaving the classroom; they will have the option to go online as much as they want, or even become 100% online (if this happens, please follow the "online" guidelines).

UTT POLICIES

Coronavirus: UT TYLER policies

Students are required to wear face masks covering their nose and mouth, and follow social distancing guidelines, at all times in public settings (including classrooms and laboratories), as specified by Procedures for Fall 2020 Return to Normal Operations (<https://www.uttyler.edu/reboot/files/ut-tyler-fall-2020-procedures-rev-10-07.pdf>). The UT Tyler community of Patriots views adoption of these practices consistent with its Honor Code and a sign of good citizenship and respectful care of fellow classmates, faculty, and staff.

Students who are feeling ill or experiencing symptoms such as sneezing, coughing, or a higher than normal temperature will be excused from class and should stay at home and may join the class remotely. Students who have difficulty adhering to the Covid-19 safety policies for health reasons are also encouraged to join the class remotely. Students needing additional accommodations may contact the Office of Student Accessibility and Resources at University Center 3150, or call (903) 566-7079 or email saroffice@uttyler.edu.

For a week by week breakdown of testing and results at UT Tyler: <https://www.uttyler.edu/coronavirus/>

Students Rights and Responsibilities

To know and understand the policies that affect your rights and responsibilities as a student at UT Tyler, please follow this link: <http://www.uttyler.edu/wellness/rightsresponsibilities.php>

Grade Replacement/Forgiveness and Census Date Policies

Students repeating a course for grade forgiveness (grade replacement) must file a Grade Replacement Contract with the Enrollment Services Center (ADM 230) on or before the Census Date of the semester in which the course will be repeated. Grade Replacement Contracts are available in the Enrollment Services Center or at <http://www.uttyler.edu/registrar>. Each semester's Census Date can be found on the Contract itself, on the Academic Calendar, or in the information pamphlets published each semester by the Office of the Registrar.

Failure to file a Grade Replacement Contract will result in both the original and repeated grade being used to calculate your overall grade point average. Undergraduates are eligible to exercise grade replacement for only three course repeats during their career at UT Tyler; graduates are eligible for two grade replacements. Full policy details are printed on each Grade Replacement Contract.

The Census Date is the deadline for many forms and enrollment actions that students need to be aware of. These include:

- Submitting Grade Replacement Contracts, Transient Forms, requests to withhold directory information, approvals for taking courses as Audit, Pass/Fail or Credit/No Credit.
- Receiving 100% refunds for partial withdrawals. (There is no refund for these after the Census Date)
- Schedule adjustments (section changes, adding a new class, dropping without a "W" grade)
- Being reinstated or re-enrolled in classes after being dropped for non-payment
- Completing the process for tuition exemptions or waivers through Financial Aid

State-Mandated Course Drop Policy

Texas law prohibits a student who began college for the first time in Fall 2007 or thereafter from dropping more than six courses during their entire undergraduate career. This includes courses dropped at another 2-year or 4-year Texas public college or university. For purposes of this rule, a dropped course is any course that is dropped after the census date (See Academic Calendar for the specific date).

Exceptions to the 6-drop rule may be found in the catalog. Petitions for exemptions must be submitted to the Enrollment Services Center and must be accompanied by documentation of the extenuating circumstance. Please contact the Enrollment Services Center if you have any questions.

Disability Services

In accordance with Section 504 of the Rehabilitation Act, Americans with Disabilities Act (ADA) and the ADA Amendments Act (ADAAA) the University offers accommodations to students with learning, physical and/or psychiatric disabilities. If you have a disability, including non-visible disabilities such as chronic diseases, learning disabilities, head injury, PTSD or ADHD, or you have a history of modifications or accommodations in a previous educational environment you are encouraged to contact the Student Accessibility and Resources office and schedule an interview with the Accessibility Case Manager/ADA Coordinator, Cynthia Lowery Staples. If you are unsure if the above criteria applies to you, but have questions or concerns please contact the SAR office. For more information or to set up an appointment please visit the SAR office located in the University Center, Room 3150 or call 903.566.7079. You may also send an email to cstaples@uttyler.edu

Student Absence due to Religious Observance

Students who anticipate being absent from class due to a religious observance are requested to inform the instructor of such absences by the second class meeting of the semester.

Student Absence for University-Sponsored Events and Activities

If you intend to be absent for a university-sponsored event or activity, you (or the event sponsor) must notify the instructor at least two weeks prior to the date of the planned absence. At that time the instructor will set a date and time when make-up assignments will be completed.

Social Security and FERPA Statement:

It is the policy of The University of Texas at Tyler to protect the confidential nature of social security numbers. The University has changed its computer programming so that all students have an identification number. The electronic transmission of grades (e.g., via e-mail) risks violation of the Family Educational Rights and Privacy Act; grades will not be transmitted electronically.

Emergency Exits and Evacuation:

Everyone is required to exit the building when a fire alarm goes off. Follow your instructor's directions regarding the appropriate exit. If you require assistance during an evacuation, inform your instructor in the first week of class. Do not re-enter the building unless given permission by University Police, Fire department, or Fire Prevention Services.

Academic Dishonesty:

At The University of Texas at Tyler, students and faculty are responsible for maintaining an environment that encourages academic integrity. Student and faculty members are required to report an observed or suspected case of academic dishonesty immediately to the faculty member in charge of an examination, classroom or laboratory research project, or other academic exercise.

Since the value of an academic degree depends on the absolute integrity of the work done by the student for the degree, it is imperative that the student maintains a high standard of individual honor in scholastic work. Scholastic dishonesty includes but is not limited to cheating, plagiarism, and collusion:

"Cheating" includes:

1. Copying from the paper of another student, engaging in written, oral, or any other means of communication with another student, or giving aid to or seeding aid from another student when not permitted by the instructor;
2. Using material during an examination or when completing an assignment that is not authorized by the person giving the examination or making the work assignment;
3. Taking or attempting to take an examination for another student, or allowing another student to take an examination for oneself;
4. Using, obtaining, or attempting to obtain by any means, the whole or any part of, an unadministered examination or work assignment.

"Plagiarism" includes the unacknowledged incorporation of the work of another person in work that a student offers for credit.

"Collusion" includes the unauthorized collaboration with another person in preparing written work that a student offers for credit.

Tobacco-Free Campus:

- All forms of tobacco will not be permitted on the UT Tyler main campus, branch campuses, and any property owned by UT Tyler. This applies to all members of the University community, including students, faculty, staff, University affiliates, contractors, and visitors.
- Forms of tobacco not permitted include cigarettes, cigars, pipes, water pipes (hookah), bidis, kreteks, electronic cigarettes, smokeless tobacco, snuff, chewing tobacco, and all other tobacco products.
- There are several cessation programs available to students looking to quit smoking, including counseling, quitlines, and group support. For more information on cessation programs please visit www.uttyler.edu/tobacco-free