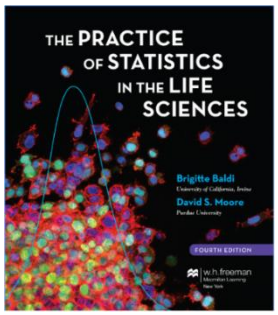
THE UNIVERSITY OF TEXAS AT EL PASO

COLLEGE OF SCIENCE

DEPARTMENT OF MATHEMATICAL SCIENCES

Course #:	CRN 13608
Course Title:	STAT 2480: Elementary Statistical Methods
Credit Hrs:	4
Term:	Fall 2022
Course Meetings:	1:30 pm - 2:50 pm TR LART 206 1:30 pm - 2:20 pm W Physical Science Building 218 Aug 22, 2022 – Dec 4, 2022
Prerequisite Courses:	One of 1320, 1508, 1411, TCCN 1314 or equivalent
Course Fee: (if applicable)	None
Instructor:	Desmond Koomson
Contact Info:	Math Department Phone number: (915) 747-5761 E-mail address: **dkoomson@utep.edu** E-mails will be answered between 8:00 am and 4:00 pm Mondays-Fridays. E-mails received outside of these windows will be addressed during the next period or at my discretion, whichever is sooner. E-mail timestamps will be honored in regards to homework due dates, absence notifications, etc.…
Office Hrs:	MTWTr 10:30 am – 11:30 am (Location: BELL HALL 215) or by appt.
Textbook	The Practice of Statistics in the Life Sciences, fourth edition, by Baldi and Moore, **ISBN-13: 978-1-319-01337-0** Available only on Macmillan website and UTEP Bookstore The Achieve Account online homework package is required.



Required Technology/ Materials

- Achieve Account homework account
  - must access from Blackboard initially
  - Student help link: Achieve (force.com)
- MiniTab 19 –Statistical Software
  - the license provided by UTEP

You will also need regular access to a computer, stable, consistent internet, Blackboard, and your UTEP e-mail account.

Course Objectives (Learning Outcomes):

STAT 2480 is an introductory statistics class primarily for biological and life sciences. At the successful completion of this class:

I. A student will be able to identify key components of a statistical study, including experimental design, sampling plan, descriptive statistics, statistical analysis, and will be able to critique the conclusion of the study based on strengths and weaknesses throughout the paper.
II. A student will be able to calculate and interpret data utilizing both numerical and graphical summaries to support conclusions.
III. A student will be able to calculate and model problems using fundamental probability properties and basic probability distributions
IV. A student will be able to choose the appropriate statistical test for a given data set, perform the test, and utilize the conclusion to make a decision about a formal hypothesis.
V. A student will be able to design and implement all of the elements of a statistical study, including experimental design, sampling plan, descriptive statistics, statistical analysis, and will present the findings in a formal research paper.

Activities and Assignments:

The course is split into topic modules. Modules include a combination of textbook reading, lecture notes, writing assignments, labs, and homework.

Lectures: You are expected to attend lectures (and make your personal notes) and do the assigned readings from your textbook and notes.

Exams: There are three exams for the course: two mid-terms and a comprehensive final. The exams will be conducted on Achieve.

Project: As a group, you will be given a research topic, to analyze data, and present your findings in a written paper. This is a collaborative effort that will involve updates throughout the semester by every group. The final project will be submitted during the last week of the semester. Specific due dates can be found in the Project Module of Blackboard by checkpoints. Students who fail to partake in any group submission effort will be awarded a grade of zero for that checkpoint.

Labs: Labs consist of a quiz, a lab assignment from the manual, and a blog post. All of these components are together in a folder for each module. The blog post instructions can be found in the lab manual and on the Lab Blog Homepage. Submit only your QUIZ and BLOG POST.

Homework: There are 12 homework assignments for the course, one per non-test module. They are solely conducted on Achieve Account. Due date information can be found on the Calendar (last page) and in Achieve Account.

Writing Assignments: You will have a variety of writing assignments throughout the semester. Each one has different instructions and is related to a specific module. An example is the 'Exploring an Article (EAS)'. A comprehensive guide to each of these EAS is included on Blackboard. Individual instructions for these assignments is also included in each respective module.

Learning Curve: Learning curve is an adaptive learning tool in Achieve account. These assignments introduce you to the textbook material with easy questions. You get points for each question you get correct and do not lose points for questions you miss. Once you have reached the target goal for the Learning Curve, it is considered complete. You will be graded on the number of Learning Curves you complete and they will receive NO EXTENSION after due date for non-completion.

Course Schedule: A comprehensive course schedule is attached as the last pages of this syllabus. Semester highlights are included.

- Aug 23rd – Classes Begin
- **Exam 1** (Online Sept 30th)
- **Exam 2** (Online Oct 28th)

- Nov 24th – 25th Thanksgiving Holiday
- September 7th Census Day (Last day to drop without a W)
- October 28th Drop Day (Last day to drop with a W)
- Dec 1st – Last Day of Classes
- **Final Exam Date - Thurs Dec 08**

Grading Policy: You will be graded on homework, exams, labs, discussion boards, learning curve, and the project. The course grade is based on:

15% Exam I
15% Exam II
15% Cumulative Final Exam
15% Project
15% Homework Assignments
10% Lab Quizzes and Lab Blogs
10% Writing Assignments (EAS)
5% Learning Curve

Letter grades are determined according to the following scale:

Grade	Score
A	90-100
B	80-89
C	70-79
D	60-69
F	<60

Activity Specific Policies: Online homework assignments in Achieve Account have ten attempts per question. Ensure you have answered all of the sub-questions before submitting, as those empty submissions are counted as incorrect. You may request a 3-day extension for a 15% (flat) penalty.

Make-up Policy: Lab quizzes and Blogs, Writing Assignments, and Learning Curves cannot be submitted late for credit. If you feel like you have some extenuating circumstance, or have an excused absence that will keep you from completing an assignment or quiz, please contact me right away (max of 3 days from assignment due date) and be prepared to show supporting documentation. I reserve the right to excuse or exempt assignments and quizzes if the situation is warranted.

Exam: A make-up exam will only be given in extraordinary circumstances (severe illness, death in the immediate family), and with appropriate documentation (e.g., doctor's note).

Attendance Policy: Participation is assessed by the completion of module activities. You can fully participate in class by:

- Completing all assigned readings and attending lectures
- Completing the Writing Assignments
- Completing all module activities (labs, assignments)
- Completing all major assignments (exams, project)

Each aspect of the course builds on the previous topic. By completing things in the order provided, you are building the foundation needed for the next step.

Failure to submit any weekly assignment for two weeks, or failure to complete an exam will result in being dropped from the course.

Academic Integrity Policy: The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts. Each student is responsible for notice of and compliance with the provisions of the Regents' Rules and Regulations, which are available for inspection electronically at https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations.

All students are expected and required to obey the law, to comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official in the course of his or her authorized duties, and to observe standards of conduct appropriate for the University. A student who enrolls at the University is charged with the obligation to conduct himself/herself in a manner compatible with the University's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific

instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off campus or whether civil or criminal penalties are also imposed for such conduct.

Netiquette: You will be interacting with your fellow students both online & in class setting. Your tone should be professional and respectful. When interacting with others, ensure your contribution addresses the work, not the person.

Blackboard is not a public internet venue; all postings to it should be considered private and confidential. Whatever is posted on in these online spaces is intended for classmates and professors only. Please do not copy documents and paste them to a publicly accessible website, blog, or other space. If students wish to do so, they have the ethical obligation first to request the permission of the writer(s).

Accommodation Policy: The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747- 5148, or email them at **cass@utep.edu** , or apply for accommodations online via the CASS portal.

COVID-19 Precautions

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

Please contact me immediately if you fall ill during the semester so that we can work together to formulate a strategy to help you get caught up as soon as you are physically able.

Military Statement: If you are a military student who may potentially be called to military service or training during the semester, you are encouraged to contact your instructor as soon as possible.

Drop Deadlines: The last day to drop the course with a "W" is Oct 28th. Students who decide to drop the course must process a drop form, with the Registrar's Office, before July 8th. Please note that the College of Science will remain aligned with the University and will not approve any drop requests after that date.

Failure to make adequate forward progress in the course is grounds for instructor initiated drops.