MATH 3351 Probability and Statistics

Instructor: Dr. Regan Beckham
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Office: RBN 4012
Office Hours: MTWR After Class, F 10:30A-11:30A
Class Meeting Time: MTWRF 12:40P-2:20P in RBN 4025
Required Text*: Statistics for Technology,* by Chris Chatfield

If you chose to take this class you will:
- *Read the book* – Read the material being covered prior to attending class and again after.
- *Attend Class* – You should not take this course if you are not committed to attending class.
- *Complete Homework* – Homework completion is vital to the understanding of the material.

Grading Policy
Your final grade will be based on the following:

Exams
There will be **five** 20 point exams. Every exam is comprehensive. Exams will be on Friday.
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Your final grade will be no more harsh than the following scale

Percentages
100 - 85 A, below 85 - 70 B, below 70 - 55 C, below 55 - 50 D, below 50 F
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A bit about grading
Below is the grading scheme that will be used for all exam problems. Whether this splits up to each part of a multi-part problem depends on the necessary work to move through each problem.

0 - No progress or relevant information given for the problem
1 - Some progress which could lead to a correct solution
2 - Significant progress, major elements present, partial explanation/proof
3 - Essentially complete and correct solution, with minor gaps, errors, or lack of explanation
4 - Fully correct and complete solution with all relevant information and explanation

Make-up Policy
Make-ups for documented absences that are required as part of a UT Tyler obligation (e.g. athletes participating in an event, participating in a debate contest, etc.) or for religious observation will be granted. For all make-ups of this type, prior notification of at least one week and documentation are required.

Classroom Policy
When you attend class you are to be actively engaged in the classroom activity. Also, you are to be respectful of those around you and conduct yourself in a collegial manner. Students not adhering to this may be asked to leave the classroom.

UT Tyler Honor Code
To embrace honor and integrity that will not allow me to lie, cheat, or steal, nor to accept the actions of those who do.

Student Learning Outcomes
By the end of the course students should:

- have a workable understanding of Probability and Statistics

- be able to analyze a physical problem and determine what type of probability distribution best models the situation.

- be able to use mathematical techniques, to solve and gain information about the situations of interests.

- be able to use mathematical results to make conclusions about physical models studied.

Important Dates:
July 10: Census date July 29: Drop date

Schedule
Week 1: Chapters 1, 2, 3, and 4
Week 2: Chapters 5 and 6
Week 3: Chapters 7 and 12
Week 4: Chapters 12, 8 and 9
Week 5: Chapters 9 and 10

Calculator Policy: Graphing calculators are not allowed on exams. You may use simple scientific calculators for help with arithmetic.

University Policies: See https://www.uttyler.edu/offices/academic-affairs/files/syllabus-information.pdf for these important University policies: UT Tyler Honor code, student rights and responsibilities, campus carry, UT Tyler a tobacco-free university, grade replacement and forgiveness, state-mandated course drop policy, student accessibility and resources, student absence for university-sponsored events, social security and FERPA, emergency exits and evacuation, and student standards of academic conduct.
UT Tyler is committed to exploring and using artificial intelligence (AI) tools as appropriate for the discipline and task undertaken. We encourage discussing AI tools' ethical, societal, philosophical, and disciplinary implications. All uses of AI should be acknowledged as this aligns with our commitment to honor and integrity, as noted in UT Tyler's Honor Code. Faculty and students must not use protected information, data, or copyrighted materials when using any AI tool. Additionally, users should be aware that AI tools rely on predictive models to generate content that may appear correct but is sometimes shown to be incomplete, inaccurate, taken without attribution from other sources, and/or biased. Consequently, an AI tool should not be considered a substitute for traditional approaches to research. You are ultimately responsible for the quality and content of the information you submit. Misusing AI tools that violate the guidelines specified for this course (see below) is considered a breach of academic integrity. The student will be subject to disciplinary actions as outlined in UT Tyler's Academic Integrity Policy.

For this course, all graded work must be done in person without the assistance of AI. You are free to use AI as a study aid, for instance to generate practice problems and solutions.