Course Title: Introduction to Statistics
Course #: MATH-1350-1
Credit Hours: 3
Semester: Spring 2022

Instructor: Abdulmtalb Hussen, Ph.D.
Primary Contact: Blackboard, Pearson MyLab
Email address: ahussen@navajotech.edu
Meetings: In Person
Class Location: SUB 213
Office: Nursing Building 211
Class Meeting Times: *Monday & Wednesday 10:00pm –11:15pm*
Office Hours: *After Class, By Appointment*

Welcome to Math 1350-01- Introduction to Statistic. I am so happy to get a chance to teach this course and am hoping that we have a very wonderful semester together.

Textbooks: Elementary Statistics 7th Edition, Ron Larson, Betsy Farber. (Not required)

Required Materials:
Tools: Scientific Calculator
Every student is required to have a laptop. For students who don't have laptops, the cost of the laptops will be deducted from their Pell grant and then NTU will purchase laptops for them.

Required software: MyLab Access code. MyLab is accessed through Blackboard. You will use this to do online homework. The access code is needed to access the course. You can also access the text**. Please contact the book store to buy the access code as soon as possible**.

YOU NEED TO DO THE FOLLOWING TO LINK UP WITH THE MATHLAB SITE FOR THIS SECTION
• Click on View course & institution tools Tab.
• Then click on Pearson MyLab & Mastering".
• On your initial access you will be prompted to set up an account OR enter username and password if you already have a Pearson account.

Mission Statement
Navajo Technical University's mission is to provide University readiness programs, certificates, associate, baccalaureate, and graduate degrees. Students, faculty, and staff will provide value to the Diné community through research, community engagement, service learning, and activities designed to foster cultural and environmental preservation and sustainable economic development.

The University is committed to a high quality, student-oriented, hands-on-learning environment based on the Diné cultural principles: *Nitsáhákees, Nahátá, Íína, Siihasin.*

Course Description

This course will discuss the fundamentals of descriptive and inferential statistics. Students will gain introductions to topics such as descriptive statistics, probability and basic probability models used in statistics, sampling and statistical inference, and techniques for visual presentation of numerical data. Those concepts will be illustrated by examples from a variety of fields. At times, the learning process relating to the Navajo culture in the areas of Nitsahakees, Nahatah, Iina, and Sihasin will be covered as well as other cultures (multi-cultural studies).

Instructional Methods

Weekly modules will have online videos within our Blackboard course shell for each session. Students will be expected to read and practice all examples in each session, module topics and watch online videos throughout the week and complete the weekly exercises and assignments in a timely manner. You should ensure that you have completed the corresponding readings and videos and also assigned exercise problems. Assignments are due Sunday at midnight. Students may complete the assignments at any point during that window.

Course Requirements

Students are expected to study the notes for every session\ watch videos on Blackboard and complete lesson topic problems. Every week students will complete assignments of that session's content. There will be a midterm exam at the end of 8th week and a comprehensive final exam at the end of week 17. Students are encouraged to begin this week's module as soon as possible.

Course Activities

Week	Chapters Covered
MATH 1350-01 Schedule, Spring 2022	
1 01/17	Introductions, Syllabus Martin Luther King Jr. Day, Jan 17, 2022 Last Day Add/Drop Classes w/out W, Jan 21, 2022
2 01/24	Chapter 1: Introduction to Statistics
3 01/31	Chapter 2: Descriptive Statistics & Quiz 1
4 02/07	Chapter 2: Descriptive Statistics Chapter 3: Probability
5 02/14	Chapter 3: Probability & Quiz 2

6 02/21	Chapter 4: Discrete Probability Distributions Holiday – President's Day, Feb 21, 2022 Spring Graduation Petitions Due, Feb 25, 2022
7 02/28	Chapter 4: Discrete Probability Distributions & Quiz 3
8 03/07	Review & Midterm Exam
9 03/14	Spring Break Mar 14 – 18, 2022
10 03/21	Chapter 5: Normal Probability Distributions
11 03/28	Chapter 6: Confidence Intervals & Quiz 4 Last day to Withdraw With a W, Mar 31, 2022
12 04/04	Chapter 6: Confidence Intervals
13 04/11	Chapter 7: Hypothesis Testing with One Sample & Quiz 5
14 04/18	Chapter 7: Hypothesis Testing with One Sample
15 04/25	Chapter 8: Hypothesis Testing with Two Samples& Quiz 6
16 05/02	Chapter 9: Correlation and Regression
17 05/09	Final Exam

Grading

Quizzes	20%
Homework/ Classwork	20%
In Class Activities	5%
Midterm	25%
Attendance	5%
Final Exam	25%
Total	100%

Grading Scale:

Class Percentage	Letter Grade
90-100 %	A

80-89 %	B
70-79 %	C
60-69 %	D
< 60 %	F

Grading Policy

Each student must do his or her own homework and case studies. Discussion among students on homework and cases is encouraged for clarification of assignments, technical details of using software, and structuring major steps of solutions - especially on the course's Web site. Students must do their own work on the homework and exam. Cheating and Plagiarism are strictly forbidden. Cheating includes but is not limited to: plagiarism, submission of work that is not the student's own, submission or use of falsified data, unauthorized access to exam or assignment, use of unauthorized material during an exam, supplying or communicating unauthorized information for an assignment or exam.

Participa*tion*

Students are expected to attend and participate in all class activities- as listed above, as it **is 5% of the grade**. Points will be given to students who actively participate in class activities including field trips, laboratories, and ask questions of guest speakers and other presenters.

Cell phone and headphone use

Please turn cell phones off or place them on silence or vibrate mode **before** coming to class. Also, answer cell phones **outside of class** (not in the classroom). Exercising cell phone use courtesy is appreciated by both the instructor and classmates. Headphones are to be removed before coming to class.

Attendance Policy

Students are expected to regularly attend all classes for which they are registered. A percentage of the student's grade will be based on class attendance and participation. Absence from class, regardless of the reason, does not relieve the student of his/her responsibility to complete all course work by the required deadlines. Furthermore, it is the student's responsibility to obtain notes, handouts, and any other information covered when absent from class and to arrange to make up any in-class assignments or tests if permitted by the instructor. Incomplete or missing assignments will necessarily affect the student's grades. Instructors will report excessive and/or unexplained absences to the Counseling Department for investigation and potential intervention. **Instructors may drop students from the class after three (3) absences unless prior arrangements are made with the instructor to make up work and the instructor deems any excuse acceptable.**

Study Time Outside of Class for Face-to-Face Courses

For every credit hour spent in a class, a student is expected to spend two hours (2) outside of class studying the course materials.

Study Time for Hybrid or Blended Courses

For a hybrid or blended course of one (1) credit hour, a student is expected to spend three (3) hours per week studying the course materials.

Study Time for Online Courses

For an online course of one (1) credit hour, a student is expected to spend four hours (4) per week studying the course materials.

Academic Integrity

Integrity (honesty) is expected of every student in all academic work. The guiding principle of academic integrity is that a student's submitted work must be the student's own. Students who engage in academic dishonesty diminish their education and bring discredit to the University community. Avoid situations likely to compromise academic integrity such as: cheating, facilitating academic dishonesty, and plagiarism; modifying academic work to obtain additional credit in the same class unless approved in advance by the instructor, failure to observe rules of academic integrity established by the instructor. **The use of another person's ideas or work claimed as your own without acknowledging the original source is known as plagiarism and is prohibited**.

Diné Philosophy of Education

The Diné Philosophy of Education (DPE) is incorporated into every class for students to become aware of and to understand the significance of the four Diné philosophical elements, including its affiliation with the four directions, four sacred mountains, the four set of thought processes and so forth: Nitsáhákees, Nahát'á, Íína and Siih Hasin which are essential and relevant to self-identity, respect and wisdom to achieve career goals successfully.

Students with Disabilities

The Navajo Technical University and the (insert the name of your department or school) are committed to serving all enrolled students in a non-discriminatory and accommodating manner. Any student who feels he/she may need an accommodation based on the impact of disability or needs special accommodations should inform NTU in accordance with the procedures of the subsection entitled "Students with Disabilities" under Section 7: Student Support Programs, NTU Student Handbook.

Email Address

Students are required to use NTU's email address as a formal mode of communication.