UNM Valencia
MATH 1350-501, Intro Statistics
Fall 2022

Instructor: Michael Gonzales
e-mail: mgonza79@unm.edu
Office: LRC 107
Tutoring Hours: Tuesdays: 1030-1130, 1330-1500, Wednesdays: 1000-1130 Thursdays: 1050-1150, or by appointment
Class time and location: MW, 1330-1445, WTC (Valencia Workforce Training Center) 1207
MECS Division Chair: Ariel Ramirez (aramirez8@unm.edu)

Text: The Basic Practice of Statistics (ninth edition), Achieve Package (e-book). Achieve is the online learning system which accompanies the textbook and includes an e-book. Achieve is required for MATH1350 (Stat145). If you don't use Achieve, your Achieve Assignments scores will be 0s, which is 45% of your course overall grade. **Access Code:** Achieve Access codes are available from the UNM bookstore, or the publisher (Online), or with a lower price through inclusive access. Hard text copies are not required since Achieve includes an e-book.

This course comes with Inclusive Access (IA). You will receive an email that contains instructions for inclusive access to the book via the RedShelf on UNM Learn. Please, read the instructions carefully and follow what is required to have access to the book at a discounted price.

Student Instructions: Follow these steps to get started.

- Go to `https://achieve.macmillanlearning.com/start` to log in or create an account. (Use your UNM-Email).
- If you click on "I need to enroll in a course" you will be prompted to enter the Course ID or Access code.
- Course ID: XXXXXX (need to get)

Where is your e-book? To access your e-book, click on the e-book option on the left sidebar of your course site. Create an account or log in with an existing Macmillan Learning eBook account. Introduction to Assessments for students on Achieve Learning: Please follow the links bellow in order to know how to use Achieve learning: Registration information: `https://macmillan.force.com/macmillanlearning/s/`.

Achieve slides for LMS integration (inclusive access): `https://docs.google.com/presentation/d/1BgD52StOlr1vYB7AIQQyoec7TvB3q9i_0p1u9EvaF7E/edit#slide=id.g3dbd7ae118_3_10`

Course description: This course discusses 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 the visual presentation of numerical data. These concepts will be illustrated by examples from a variety of fields. (3 Credit Hours).

Prerequisites: MATH 1130 is NOT a prerequisite for MATH 1350. Successful completion of MATH 1170 or (MATH 1215X and MATH 1215Y) or MATH 1220 or MATH 1230 or MATH 1240 or MATH 1250 or MATH 1430 or MATH 1440 or MATH 1512 or MATH 1522 or MATH 2530, or minimum ACCUPLACER score ≥ 262 (QRAS) or ≥ 233 (A&F), or ACT score ≥ 20, or SAT score ≥ 520.

Course Outcomes: This course is an introductory course in statistics intended for students in a wide variety of areas of study. Topics discussed include displaying and describing data, the normal curve, regression, probability, statistical inference, confidence intervals, and hypothesis tests with applications in the real world. Student Learning Objectives for this course is given at the end of this syllabus.

Other Requirements:

- Reliable access to a computer or tablet, and Internet. A computer (laptop or desktop) is recommended. Preferred browsers are Chrome, Firefox, or Safari. The preferred operating systems are Windows or Apple.
- Access to UNM Canvas requires use your UNM NetID to log into UNM Canvas. You may access it directly via `https://canvas.unm.edu/`

Attendance/Participation (10%): You are expected to be on time for each class, stay the entire class, have the necessary course materials on hand, and participate in the lecture or group activities to receive full credit for attendance each day. Points will be deducted for unexcused absences and unexcused tardiness.

- **Absences:** If you know ahead of time you will miss class, send me an email with the date of the absence to receive and excused absence. Arrange before the next class to get notes from a classmate. The student is responsible for the material and information covered in class.

Online Homework (30%) and Quizzes (15%): Warning: Achieve will not work with iPad, Phone or these sorts of devices. Also on some laptops it may ask for some setting. Also, make sure you are allowing popups. Please, follow the instructions showing in error message or if you cannot figure it out contact tech support

The Achieve Learning technical support team can be reached by phone or by webform via the Student Support Community. Here are their hours and contact information:`https://macmillan.force.com/macmillanlearning/s/achieve` and Phone: (800) 936-6899

Where do you find your online assignments? You can find your online assignments on Achieve. On the main page, you can scroll down to find all the chapters that we are covering in this class. For each chapter, you will find Homework and Quiz which is assigned and has a due date in front of that. Homework and Quiz are the only mandatory online assignments and will be part of your overall grade. (45%)

The rest of the activities are only for your practice and will not count as your grade.For each chapter assignments (Homework and online Quizzes) will be assigned in Achieve and will be graded automatically. Points and the number of assignments will vary. For homework, you have five trials and it is not timed. For quizzes, you have three trials, for each wrong answer you lose 5% of the question's point, but the quiz is not timed.

Due Dates: For assignments, you will have an initial due date and a final due date. You can find the due dates on Achieve's main page. When you exceed the initial due date you will receive a 10% penalty for each day of delay before the final due date. You should be done with your assignments before the final due dates otherwise you will receive a zero. After the final due dates, no assignment is accepted! This method keeps us up to date with our assignments and not letting ourselves get behind. Please, don't ask for an extension because it won't be fair to other students who are always on time.

How to be successful taking your online Assignments: After each lecture read the notes, finish the Learning curves and Stat Tutors (You can find a learning Curve and Stat Tutor for each

topic), take the homework, at the end take the Quiz. Stat tutors are not part of your grade but if you need more assistance you should go through the Stat tutors.

Project (10%): There is one project assigned during the semester. It will involve gathering your own data set and using some of the concepts discussed in the class to critically examine this data set. Information on the project is given a few weeks into the semester. **The project is worth 10% of your grade. Late projects have a week's grace period and will receive a 20% penalty.**

Midterm Exam (15%) and Final Exam(20%): There is a midterm exam and a final exam during the class time period. See the outline for the dates. If you are ill or an unexpected event happens and you cannot make it to the exam, you have one week to make it up.

Grading: Course Averages: Attendance/Participation 10%, Online Homework 30%, Online Quizzes 15%, Project 10%, Midterm Exam 15%, Final Exam 20%. Total: 100%

*__You must score at least a 70% on the final exam and have a course average of 70% or better to earn a passing grade in the course.__

Grading Scale:

A+ [98% - 100%]	**A** [93% - 98%]	**A-** [90% - 93%]
B+ [88% - 90%]	**B** [83% - 88%]	**B-** [80% - 83%]
C+ [78% - 80%]	**C** [70% - 78%]	
D [60% - 70%]		
F [0% - 60%]		

In the case where a student is unsuccessful in the course, if a grade is required for financial aid, please inform the professor.

Expectations:

- Students are expected to conduct themselves in a polite, courteous, professional, and collegial manner. When participating in discussions or interacting with me or other students be respectful at all times

Support:

- Tutoring Hours: See my office hours listed at the beginning of this syllabus. Feel free to come by or log in for online office hours or make an appointment to get help.
- Form study groups: You may work together with other members of our class.
- Free Tutoring: The Math Center at Valencia campus has free tutoring and open labs. Call 505-925-8907 for more information. CAPS on main campus also provides tutoring for which I can get documentation.
- Student Services: There are various services provided in our Student Services Department. See below about equal access. Also, we have a testing center, advising, and career placement available: Valencia Student Services
- Work will be graded and returned with feedback within one week of submission. You are encouraged to do corrections and resubmit any written homework or project assignments to improve your grade up to two weeks after the due date.

Instructor Response Time: I routinely check the course for postings or emails, Monday (7 am) – Friday (noon), and sometimes on the weekend. You can anticipate a 24 to 48-hour response from me, Monday – Thursday. I will try and respond to all weekend (Friday afternoon to Sunday) emails and postings by noon on Monday or earlier. I prefer all communication through email or Canvas Learn.

Other Important Information:

Equal Access: In accordance with University Policy 2310 and the Americans with Disabilities Act (ADA), academic accommodations may be made for any student who notifies the instructor of the need for an accommodation. It is imperative that you take the initiative to bring such needs to the instructor's attention, as I am not legally permitted to inquire. Students who may require assistance in emergency evacuations should contact the instructor as to the most appropriate procedures to follow. Contact Accessibility Resource Center at 277-3506 for additional information.

If you need an accommodation based on how course requirement interacts with the impact of a disability, you should contact me to arrange an appointment as soon as possible. At the appointment, we can discuss the course format and requirements, anticipate the need for adjustments and explore potential accommodations. I rely on the Disability Services Office for assistance in developing strategies and verifying accommodation needs. If you have not previously contacted them, I encourage you to do so.

If you are a Valencia campus student, contact Equal Access Services at Valencia Campus, Cheryl Dilger at (505) 925-8910 or Valencia Student Services. If you are a main campus student, you can receive documentation from the main campus Accessibility Resource Center. I will not guarantee accommodation without the appropriate documentation.

Academic Integrity: Having academic integrity is paramount to your success in any class. Plagiarism or cheating is not tolerated. Any instance of this will result in a grade of zero for that assignment. Here is the link to the UNM Academic Dishonesty Policy: `https://policy.unm.edu/regents-policies/section-4/4-8.html`. The policy states:

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Academic Dishonesty is defined as:

"Academic dishonesty" includes, but is not limited to, dishonesty in quizzes, tests, or assignments; claiming credit for work not done or done by others; hindering the academic work of other students; misrepresenting academic or professional qualifications within or without the University; and nondisclosure or misrepresentation in filling out applications or other University records.

Title IX Statement: In an effort to meet obligations under Title IX, UNM faculty, Teaching Assistants, and Graduate Assistants are considered "responsible employees" by the Department of Education (see pg. 15 - `http://www2.ed.gov/about/offices/list/ocr/docs/qa-201404-title-ix.pdf`). This designation requires that any report of gender discrimination which includes sexual harassment, sexual misconduct and sexual violence made to a faculty member, TA, or GA must be reported to the Title IX Coordinator at the Office of Equal Opportunity (`oeo.unm.edu`). For more information on the campus policy regarding sexual misconduct, see: `https://policy.unm.edu/university-policies/2000/2740.html`

COVID-19 Health and Awareness: UNM is a mask friendly, but not a mask required, community. To be registered or employed at UNM, Students, faculty, and staff must all meet UNM's Administrative Mandate on Required COVID-19 vaccination. If you are experiencing COVID-19 symptoms, please do not come to class. If you have a positive COVID-19 test, please stay home for five days and isolate yourself from others, per the Centers for Disease Control (CDC) guidelines. If you do need to stay home, please communicate with me at [mgonza79@unm.edu]; I can work with you to provide alternatives for course participation and completion. UNM faculty and staff know that these are challenging times. Please let us know that you need support so that we can connect you to the right resources and please be aware that UNM will publish information on websites and

email about any changes to our public health status and community response.
Support:

- Student Health and Counseling (SHAC) at (505) 277-3136. If you are having active respiratory symptoms (e.g., fever, cough, sore throat, etc.) AND need testing for COVID- 19; OR If you recently tested positive and may need oral treatment, call SHAC.
- LoboRESPECT Advocacy Center (505) 277-2911 can offer help with contacting faculty and managing challenges that impact your UNM experience

Communications on Change in Modality: The university may direct that classes move to remote delivery at any time to preserve the health and safety of the students, instructor and community. Please check your email and your UNM Learn site regularly for updates about our class, and please check `https://bringbackthepack.unm.edu` regularly for general UNM updates about COVID-19 and the health of our community. If this occurs, there will be no in person office hours.

For Military-Connected Students: There are resources on campus designed to help you succeed. You can approach any faculty or staff for help with any issues you may encounter. Many faculty and staff have completed the GREEN ZONE training to learn about the unique challenges facing military-connected students. If you feel that you need help beyond what faculty and/or staff can give you, please reach out to the Veterans Resource Center on main campus at 505-277-3181, or by email at vrc@unm.edu. The Veterans Coordinator at UNM-Valencia is in the Student Services Office, at 505-925-8560.

Semester Dates and Deadlines:

- Fall 2022– 16-week classes (deadlines will be different for first and second 8-week classes)
- Monday, August 22: First day of class, classes available in Canvas
- Monday, September 5: Labor Day, no class
- Friday, September 2, by 5:00 pm: Last day to add a class or to change credit hours or grade mode in LoboWEB.
- Friday, September 9: Last day to drop without "W" grade and with 100% refund on LoboWEB
- Friday, November 11 : Last day to drop without Dean's permission on LoboWEB. Will receive "W" grade and will be responsible for tuition for the course.
- Friday, December 9: Last day to drop with the permission form.
- Finals Week: Monday, December 12 – Saturday, December 17

MATH 1350 Course Student Learning Outcomes: Upon successful completion of the course, students will be able to:

1. Students will explain the general concepts of statistics. (Ch 1)
2. Students will presentation and description of data. (Ch 1 & Ch 2)
3. Students will summarize data using measures of central tendency and variation. (Ch 2)
4. Students will present the concepts of probability. (Ch 3)
5. Students will calculate probabilities using the standard normal distribution and relate them to areas under the curve. (Ch 3)
6. Students will give examples of independent and dependent variables. (Ch 4)
7. Students will calculate and interpret the linear correlation coefficient. (Ch 5)
8. Students will analyze data using regression and correlation. (Ch 4 & Ch 5)
9. Students will distinguish between populations and samples, and parameters and statistics. (Ch 15)
10. Students will interpret basic probabilities. (Ch 12)
11. Students will describe the relationship between the sampling distribution and the population distribution. (Ch 15)
12. Students will compute point and interval estimates. (Ch 16)

13. Students will perform hypothesis tests. (Ch 17 & Ch 20)

Tentative Schedule

Week	Dates	Sections/Topics	Assignments Due
1	08/22-08/28	Intro Chapter 1	
2	08/29-09/04	Chapter 2	
3	09/06-09/11	Chapter 2 Chapter 12	Achieve Chapter 1
4	09/12-09/18	Chapter 12	Achieve Chapter 2
5	09/19-09/25	Chapter 3	Achieve Chapter 12
6	09/26-10/02	Chapter 3 Chapter 15	
7	10/03-10/09	Chapter 15 Review	Achieve Chapter 3
8	10/10-10/16	Midterm Exam	Achieve Chapter 15
9	10/17-10/23	Chapter 4	
10	10/24-10/30	Chapter 4 Chapter 5	Achieve Chapter 4
11	10/31-11/06	Chapter 5	
12	11/07-11/20	C hapter 8	Achieve Chapter 5
13	11/14-11/20	Chapter 8 Chapter 9	Achieve Chapter 9
14	11/21-11/27	Chapter 9 Chapter 16	Achieve Chapter 9
15	11/28-12/04	Chapter 16 Chapter 17	Achieve Chapter 16
16	12/05-12-11	Chapter 17 Review	Achieve Chapter 17
	12/12-12/19	Final Exams Week	December 12-December 14