

FOUNDATIONS
OF THE DISCIPLINE



KNOW
DO
BECOME



BOISE STATE UNIVERSITY
CONCURRENT ENROLLMENT

Boise State University-MMACHS
Concurrent Enrollment Program
MATH 254-3 credits
Statistical Methods
2023-2024 Year-long

FOUNDATIONS OF THE DISCIPLINE COURSES amplify what you **know** about the world around you, what you can **do** with the kind of communications and problem-solving skills essential for success, and who you **become** as you continue learning throughout your life. The “Know, Do, Become” motto of University foundations encapsulates these overarching goals:

- **Know:** able to employ different ways of knowing and apply key transferable concepts
- **Do:** Able to communicate well, analyze and solve novel problems, and work with others
- **Become:** Has developed into a reflective, self-motivated, lifelong learner who can actively direct their own future growth.

FOUNDATIONS OF MATHEMATICS Course Learning Objectives

Apply knowledge and the methods of reasoning characteristic of mathematics to solve college-level mathematical problems.

- Read, interpret, and communicate mathematical concepts.
- Represent and interpret information/data.
- Select, execute, and explain appropriate strategies/procedures when solving mathematical problems.
- Apply quantitative reasoning to draw appropriate conclusions and support them.

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Course and Meeting time: Year-long course meeting in MMACHS Room 11 Periods 2A and 1B

Instructor: Margo Hollingsworth

Office hours: T/Th/F 7:30-7:55 am, M/W 2:20-3:00 pm

Contact information: Room 11 (office), hollingsworth.margo@westada.org, or message on Schoology.

Course description: Pre-calculus treatment of descriptive statistics, confidence intervals, hypothesis testing, simple linear regression, correlation, introduction to probability. Emphasis on reasoning, problem solving, communicating ideas, and applications to a wide variety of disciplines. Use of computer statistics packages and calculators to handle computations.

Course Requirements: Students must have a cumulative grade point average above 2.7 to register for the BSU course. A GPA of 3.0 or higher is suggested for enrollment.

Course Calendar

All course objectives, assignments and tests in this course will be shared with students via a Google document so they have an overview of what is expected of them each week. This gives me the ability to easily make small changes based on student understanding, school cancellations, etc. It will be linked within their Schoology course. The plan for the year can be found [here](#).

Daily Materials

1. Consumable materials: Pencils, erasers, lined paper and a **red or other brightly colored** pen are needed daily. **Blue or black pens are not acceptable, nor are highlighters.** Calculator batteries are also considered consumable.
2. Your workbook *Learning Through Practice: Doing Statistics* should be brought to class daily. It is yours to keep. The first copy will be provided to you free of charge, if you need a replacement you may purchase it [here](#).
3. Graphing calculator. We will be using Texas Instruments 83/84. I have calculators you can check out for the school year if needed. Other graphing calculators may be used provided they do not have internet or device to device capability. It will be your responsibility to learn the functions of your calculator if you opt to use something other than TI 83/84. Keep the protective cover on your graphing calculator when not in use and do not store it in your car. Finger/pen pokes and heat damage will result in fines for MMACHS issued calculators. Calculators will be issued with batteries, but students are responsible for replacing them as needed throughout the year.
4. Personal laptops can be used for most in class work, however internet capability is not allowed for daily quizzes or assessments taken during class, so notes taken on a personal laptop may not be utilized during these times.
5. Notebook for notes taken over reading or independent learning.
6. A **clean** copy of your formulas and tables. This should not have any writing on it except your name and class period. It may be used on quizzes and tests, including the final exam.

Team-based learning

You will be working in teams nearly every class day. It is to your benefit to work collaboratively!

- *There is **no** required team work outside of class*
- *There are **no** team projects*
- *Teams will be created by the instructor*
- *Teams will change after each unit exam*

Homework

1. Engaging in work outside of class is essential for you to be able to learn and practice your skills in Statistics. This includes reading and individual learning time as well as written assignments. You are encouraged to start on your homework the day it is assigned so you have time to come ask questions before it is due.
2. **Pre-class readings/videos daily before class.** Most homework assignments will contain instructions to watch a video and/or read then answer questions on a worksheet. This is **required** preparation for the daily in class quizzes. If you don't complete this, you will often feel lost and like you've missed something (and you have).
3. **Written homework assignments** from your workbook will be assigned almost every day. An emphasis will be placed on clear communication. This means **complete sentences** with proper grammar, spelling and punctuation. It is due before class begins on the due date and if not completed in class, will need to be done at home. Check your due dates and times in Schoology. You will be required to upload a single pdf with multiple pages of your work. Photos of pages do not upload to Schoology in order and are **not** an acceptable submission format. I will provide training on how to use Microsoft OneDrive and Microsoft Lens.
4. Only **some** written homework assignments will be graded, others will be discussed and corrected in class.
5. I reserve the right to set a due date and time other than the beginning of the next class period.
6. **Project Based Learning** will be utilized to give you practice in the scientific method, research, and statistical analysis that will help you gain experience for your senior project.

Quizzes

These are to check your understanding of the skills presented on the homework. They will be done individually. You are allowed to use any handwritten notes.

Assessments

There will be 3-4 Module assessments during each semester and a final exam. They may be written test or project based assessments where you design a study, collect data, and analyze it.

If you are absent on the day of a written exam, please email me and be prepared to take the make-up exam the day you return to school. If you are absent on the day due date of a project based assessment, you should still submit it online by the due date/time. No retakes will be allowed on exams, per Boise State University guidelines.

Final Exam: Dates and times are set by MMACHS and will be posted in class and on Schoology; the final exam will NOT be given at alternate times. All final exams are individual work. They may have a larger proportion of multiple choice questions than unit exams. The spring final exam may have content from the entire year.

Grading

Your MMACHS transcript will have grades posted for fall and spring semesters according to the college based grading scale. 90-100%=A, 80-89%=B, 70-79%=C, below 70=WIP. Your grade will be the weighted average of:

Homework	15%
In-class quizzes	10%
Assessments	55%
Final exam	20%

Rounding will follow traditional rounding rules that are utilized in Powerschool. For example, an 89.5 will automatically be rounded up to 90 in Powerschool, where 89.49 will be rounded down to 89.

The grade posted to your Boise State University transcript will be the average of your fall and spring semester MMACHS grades. Letter grades will be assigned as follows. At my discretion, I will issue a + grade if you are in the top 2 percent of a letter grade. No - grades will be given.

98-100% = A+	88-89% = B+	78-79% = C+	68-69% = D+	0-59% = F
90-97% = A	80-87% = B	70-77% = C	60-67% = D	

All students will receive a grade on their MMACHS transcript as well. This grading scale applies regardless of whether the student is enrolled in the BSU concurrent credit. The high school grade will be based on the grading scale:

90-100%=A	80-89%=B	70-79%=C	0-69%=WIP
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Late work: You can submit 2 late homework assignments each semester, which must be turned in before the unit exam for that work to be accepted. There will be no penalty for this late assignment. Any subsequent late work will not be accepted for a grade. Projects and Assessments will **not** be accepted late. You do not need to notify me that you want to use one of your late passes. I will just accept the first two that you turn in late for full credit.

Communication will be primarily in class and Schoology. Please be prepared for course information to be announced in class, read the instructions for each homework assignment and monitor Schoology for important announcements or changes to the schedule. If I need to email you I will use your West Ada email account only, so please be checking it regularly. I do not check my email or Schoology messages outside of school so I will respond the next school day.

Behavior:

I do not allow cell phone use during class, except when we are doing Kahoot's as a review. Airpods or other ear buds should be removed prior to class beginning.

Please be respectful of your classmates, school property, the instructor, and yourself.

Any disciplinary action will proceed as follows:

1. Ask student to stop the behavior.
2. Move student to a new seat, or remove disruptive item.
3. Ask student to go to the office and call or email parent within 24 hours regarding disruption.

Tutoring:

See [Boise State University Schedule for MB136](#)

Academic honesty

Boise State University expects all of us to uphold the Boise State University [Statement of Shared Values](#), which includes the following:

Academic Excellence ▪ Caring ▪ Citizenship ▪ Fairness ▪ Respect ▪ Responsibility ▪ Trustworthiness

Cheating of any kind is unacceptable. During quizzes and assessments, you must silence your cell phone and put away all electronic devices except your calculator. Any calculator **without** internet capability is permitted. Caps/hats are not permitted, and the instructor reserves the right to check any materials other than your exam for cheating, including food containers and water bottles. Students may not leave the classroom during exams. Possible consequences of cheating include:

1. 0 on assignment or exam
2. F in course
3. Academic Dishonesty Report Form filed with Student Conduct Officer.

Refer to <https://www.boisestate.edu/policy/student-affairs/code-of-conduct/>

Important dates

September 29, 2023	Last day to register for BSU concurrent credit and allocate Advanced Opportunity funds
October 20, 2023	Last day to withdraw from the BSU course with no impact on BSU transcript or Advanced Opportunity Funds
October 20, 2023	Last day to pay fees, if not using Fast Forward funds
May 1- May 15, 2024	Teacher evaluations open
May 12, 2024	Last day to withdraw from BSU course. A grade of W will show on the students transcript. Advanced Opportunity funds will need to be repaid before you can access funding for additional courses.
May 15-19, 2024	Tentative dates for finals week, schedule to be posted
May 22, 2024	Tentative Last Day for Seniors, final grades posted to BSU transcript
May 26 , 2024	Tentative date of Graduation
June 2, 2024	Submitted teacher evaluations are available to instructor