



Quantitative Reasoning MATH 125 Section 811

Instructor Info —



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765-285-8814



My BSU Profile

Course Info —



Format: Asynchronous Online

Important Note —



I only check my emails from 8 am - 5 pm on weekdays (Mon-Fri) and it may take up to 48 hours to respond to your emails.



In your email, please include the course name/number (MATH 125-811).



I will use Zoom to hold online meetings and office hours for the class.

Overview/Course Description

MATH 125 satisfies the university core curriculum requirement for mathematics. This course covers aspects of personal finance, probability, and statistics. We will use a variety of fundamental mathematical skills to analyze situations not typically covered in a traditional sequence of mathematics courses. We will develop problem-solving skills enabling students to be capable and productive leaders and citizens.

Recommended background

Three years of college preparatory mathematics in high school.

Textbook & Technology

- Our textbook is *Viewing Life Mathematically: A Pathway to Quantitative Literacy*, 2nd edition, Denley, 2023. A physical textbook is not required.
- We will use the Hawkes Learning System (HLS) online platform associated with the text.
- To create an account in Hawkes, please use the “Hawkes Single Sign On” link in Canvas.
- For more information about obtaining required course materials, see Ball State First Day.
- Students will regularly use calculators to complete calculations. The TI-30XS Multiview calculator is recommended.
- Students will be required to use spreadsheets to organize information and make repeated calculations using formulas and use other appropriate internet-based tools.

Course Objectives

Students are expected to master the manipulation of mathematical symbols and gain a new perspective on mathematical thinking, with the hope that they will recognize situations where these skills may be applied. These tools are used to provide a new way of looking at today’s world at a collegiate level. Among other things, students will learn the following:

- How to extract useful mathematical information from data presented in numerical or graphical form.
- How to use technology to gain knowledge and solve real-world problems.
- How to interpret and draw conclusions from data, both for a single variable and for two variables.
- How to communicate effectively in writing, using proper English and correct mathematical terminology, in the context of finances and statistics.

Attendance Policy

Given the asynchronous online format of the course, attendance is NOT mandatory. Nevertheless, to enhance your academic success, it is crucial that you organize your schedule to allocate 2-3 hours per week for coursework for each credit you are enrolled in.

AI Policy

No Use of Generative AI Permitted. All work conducted and/or submitted in this course should reflect your own ideas and demonstrate your current knowledge, abilities, and skills. Therefore, generative AI should not be used to complete any portion of the assignment(s). Doing so constitutes a violation of Ball State University’s Student Academic Ethics Policy.

Grading Scheme

20%	<u>Hawkes Certify Homework:</u> Homework will be assigned every week and should be completed in Hawkes. You will be required to read the <u>LEARN</u> material online, complete the designated PRACTICE and CERTIFY exercises by the specified deadlines. The deadlines are scheduled for Sundays at 11:59 pm (ET), except for 11.5 and 12.3.
10%	<u>Quizzes:</u> Quizzes will be submitted through Canvas; all quizzes will be graded. The deadlines are scheduled for Sundays at 11:59 pm, except for 11.5 and 12.3.
10%	<u>Class assignments, Discussion Boards, and additional assignments:</u> Class assignments will be assigned each week.
60%	<u>Exams:</u> There will be 3 exams on Canvas. The third will be the final exam and will cover the Statistics Unit. Each exam is scheduled to take place during a two-day period.

Weight	Assignment Type
20%	Hawkes Certify Homework
10%	Quizzes
10%	Class Assignments, Discussion Boards, and Additional Assignments
60%	Exams (3 exams, each worth 20%)

Exams: Important Notes

1. An approved formula sheet will be provided for exam 1 and statistics tables will be provided for exam 3. Exam dates are included in the course schedule.
2. Exams taken for this class will be proctored using a **lockdown browser and a video conferencing application (such as Zoom)**.
3. You will need **two devices**; these could include a laptop and a smartphone, a laptop and a tablet, or some other combination of devices that will allow you to use both a lockdown browser and a video conferencing application.
4. While you are taking exams, you will be monitored but not recorded. **For each exam, you need to be in an environment that respects your personal privacy.**
5. For each exam you take, you will be required to sign the following academic integrity statement: By typing my name, I attest to the following:
 - I am taking this exam by myself, and all of the work I submit is my own.
 - I will not consult any other person, artificial intelligence application/program, website not approved by my instructor for use on this exam, or computer application to assist me on any part of the exam.
 - I will not reference any notes, text, or online resources other than those specifically provided by my instructor for use on this exam (if any).
 - The calculator I am using for this exam is an instructor-approved calculator.

Late Submissions & Make-up Policy

- Hawkes Certify Homework: Hawkes will assess a 10% penalty per “day” that the assignment is submitted late for the first four days. Hawkes Certify assignments submitted after that will be worth 60% of their normal value.
- Quizzes: Quizzes will not be accepted late, but the two lowest Canvas quizzes will be dropped.
- Class Assignments: Class assignments cannot be made up. However, the two lowest scores will be dropped. The Data Analysis project cannot be dropped.
- Exams: Exams can be made up at the discretion of the instructor and only if the student makes arrangements before the day of the exam!

Grade Categories and Weights

Grade	Percent	Grade	Percent
A	93–100	C	73–76.99
A-	90–92.99	C-	70–72.99
B+	87–89.99	D+	67–69.99
B	83–86.99	D	63–66.99
B-	80–82.99	D-	60–62.99
C+	77–79.99	F	Below 60

Communication Policy

Clear and timely communication is essential for success in this course.

- Email Communication: Please use your Ball State email account and include “MATH 125-811” in the subject line. Your email should clearly describe your question and include relevant details (e.g., assignment name).
- Response Time: I respond to emails Monday–Friday between 8:00 am and 5:00 pm. Please allow up to 48 hours for a response. Emails sent after 5:00 pm or on weekends will be addressed the next business day.
- Course Content Questions: General questions about assignments, quizzes, Hawkes, or course material should be sent by email or via Canvas Messages. If a question is relevant to the whole class, I may share a general clarification or announcement in Canvas.
- Personal Questions: Questions related to grades or personal matters should be sent via email or Canvas Messages.
- Office Hours: Office hours will be held via Zoom. You may attend during scheduled times or email me to arrange an appointment.
- Plan Ahead: Please do not wait until the last minute to ask questions about assignments or exams, as responses may not be immediate.

Technical Information

It is your responsibility to become familiar with the class interface and seek help if necessary. BSU provides resources to help you. A lack of Canvas knowledge is not an acceptable excuse for late or incomplete work.

- Technical Equipment: For you to be successful in this type of course (e.g. hybrid delivery, flexible delivery), access to the internet is essential. Consult with Ball State Online Division at 765-285-1581 or this link.
- Technical Assistance: If you have technical questions, you can contact Ball State’s Help Desk. The helpdesk can be contacted at 765-285-1517 (Toll-Free 866-771-3276) or at this link. Hours of Operation: Monday–Thursday: 7:30am to 7:00pm & Friday: 7:30am–5pm.

- Canvas-related Issues: Click the Help icon in the lower-left corner of your Canvas screen. It looks like a question mark. In the populated list, you will see links for contacting Canvas 24/7 via chat or phone, as well as a quick orientation on how to use Canvas for discussion boards, quizzes, and assignments in your classes.
- Hawkes Learning System: If you have technical questions concerning the Hawkes Learning System, you can contact their Technical Support Monday-Friday 8:00 am – 10:00 pm Eastern via phone at 800-426-9538, or 24/7 via LiveChat

Course Withdrawal

The course withdrawal period ends on **June 1st, 2026**. Before this date, students can elect to receive a “W” for the course by completing and submitting the proper form. The instructor’s permission is not required. For details, see this link as well as Degree Requirements and Time Limits in the current Undergraduate Catalog or Withdrawal Procedures in the current graduate catalog.

University Statement

We are committed to ensuring that all members of the community are welcome, through valuing the various experiences and worldviews represented at Ball State and among those we serve. We promote a culture of respect and civil discourse. If you need course adaptations or accommodations because of a disability, please contact me as soon as possible. Ball State’s Disability Services office coordinates services for students with disabilities; documentation of a disability needs to be on file in that office before any accommodations can be provided. Disability Services can be contacted at 765-285-5293 or dsd@bsu.edu.

Freedom of Expression

In this course, we are committed to fostering a learning environment that values intellectual diversity, encourages free expression, and promotes open inquiry. As members of the Ball State Community, we treat each person in the Ball State community with civility, courtesy, compassion, and dignity and respect and learn from differences in people, ideas, and opinions. Please review Ball State University’s Statement on Freedom of Expression, the resources on Ball State’s Freedom of Expression webpage, and Ball State’s Beneficence Pledge.

Academic Honesty

Ball State’s Academic Ethics Policy is given here. Violating this policy can lead to disciplinary action up to and including expulsion from the university. Ball State’s Code of Student Rights and Responsibilities is given here.

Student Academic Ethics Policy

See this link.

Code of Student Rights and Responsibilities

See this link.

Course Schedule

Please note that assignment dates are tentative and subject to change at instructor's discretion.

Weeks	Chapter	Assignments (HC ¹ , CA ² , Q ³ , E ⁴)
W 1: 05/11-05/15	Chapter 4: Ratios, Percentages, Rates, and Proportionality <ul style="list-style-type: none"> • 4.2 Using Percentages Chapter 6: Finance <ul style="list-style-type: none"> • 6.1: Understanding Interest • 6.2 Saving and Investing 	Review Class Overview Module Introduce Yourself Course Overview quiz HC: 4.2, 6.1, 6.2 CA: 4.2, 6.1, 6.2 Q: 4.2, 6.1, 6.2
W 2: 05/18-05/22	Chapter 6: Finance <ul style="list-style-type: none"> • 6.3: Borrowing Money • 6.5 Budgeting Finance Unit Review	HC: 6.3, 6.5, Finance Unit Review (Optional) CA: 6.3, 6.5, Finance Formula Q: 6.3, 6.5 E 1*
W 3: 05/26-05/29	Chapter 10: Probability <ul style="list-style-type: none"> • 10.1 Introduction to Probability • 10.2 Counting Outcomes • 10.3 Probability of Single Events • 10.4 Addition and Multiplication Rules of Probability • 10.6 Expected Value Probability Unit Review	HC: 10.1, 10.2, 10.3, 10.4, 10.6, Probability Unit Review (Optional) CA: 10.1, 10.2, 10.3, 10.4, 10.6 Q: 10.1, 10.2, 10.3, 10.4, 10.6
W 4: 06/01-06/05	Chapter 11: Statistics <ul style="list-style-type: none"> • 11.1 Statistical Studies • 11.2 Displaying Data • 11.3 Describing and Analyzing Data • 11.4 The Normal Distribution 	E 2** HC: 11.1, 11.2, 11.3, 11.4 CA: 11.1, 11.2, 11.3, 11.4 Q: 11.1, 11.2, 11.3, 11.4 Data Analysis Project
W 5: 06/08-06/12	Chapter 11: Statistics <ul style="list-style-type: none"> • 11.5 Confidence Intervals Statistics Unit Review Chapter 12: Data Science <ul style="list-style-type: none"> • 12.3 Data Exploration 	HC: 11.5, 12.3, Statistics Unit Review (Optional) (Due 06/10) CA: 11.5, 12.3 (Due 06/10) Q: 11.5, 12.3 (Due 06/10) E 3***

¹ HC: Hawkes Certify, ² CA: Class Assignments, ³ Q: Quizzes, ⁴ E: Exams

* E 1: Sections 4.2, 6.1, 6.2, 6.3, 6.5

** E 2: Sections 10.1, 10.2, 10.3, 10.4, 10.6

*** E 3: Sections 11.1, 11.2, 11.3, 11.4, 11.5, 12.3

Important Dates

Please note that Assignment dates are tentative and subject to change at instructor's discretion.

First Day of Classes	May 11th, 2026
Exam 1	May 21st-22nd, 2026
Memorial Day	May 25th, 2026 (No Classes)
Exam 2	June 1st-2nd, 2026
Withdrawal Deadline	June 1st, 2026 (By 5 PM)
Data Analysis Project	June 1st-10th, 2026
Exam 3	June 11th-12th, 2026
End of the semester	June 12th, 2026