

**The University of Iowa
The College of Liberal Arts and Sciences
Spring, 2023**

Title: Quantitative Reasoning for Business, sections: **MATH:1350:0AAA** and **MATH:1350:0BBB**

Course meeting time: MWF, 1:30 – 2:20 (MATH:1350:0AAA) **Online**

2:30 – 3:20 (MATH:1350:0BBB) **Online**

Zoom link is given on the ICON page.

Department of Mathematics: <https://math.uiowa.edu/>

Course ICON site: To access the course site, log into [Iowa Courses Online \(ICON\)](#)
<https://icon.uiowa.edu/index.shtml> using your Hawk ID and password.

Course Home

The College of Liberal Arts and Sciences (CLAS) is the home of this course, and CLAS governs the add and drop deadlines, the “second-grade only” option (SGO), academic misconduct policies, and other undergraduate policies and procedures. Other UI colleges may have different policies.

Instructor: Dr. Sergii Bezuglyi

Office location: 325D MLH (MacLean Hall)

Student drop-in hours: MWF 3:30 – 4:30 pm or by appointment

E-mail: sergii-bezuglyi@uiowa.edu

Teaching assistant:

Office location: 261 MacBride Hall

Student drop-in hours: Wed 4-5 pm

E-mail: abdul-shabeer@uiowa.edu

Course email: The students should use the course email: MATH-1350@uiowa.edu for any questions about the course. Questions related to the activity in a discussion section should be addressed to your TA.

DEO: Dr. Ryan Kinser, 14 MacLean Hall, ryan-kinser@uiowa.edu

Description of the Course

This course includes algebraic techniques and modeling, together with quantitative methods for treating problems that arise in management and economic sciences. This course is intended for those planning to major in business. Topics include algebra techniques, functions and functional models, exponential and logarithmic functions and models, and a thorough introduction to differential calculus. Examples and applications are from management, economic sciences, and related areas.

Learning Objectives

To learn algebraic techniques and modeling, together with quantitative methods for treating problems that arise in management, finance, and economic sciences.

Textbook:

The required textbook for this course is:

- Title: *Mathematics with Applications in the Management, Natural, and Social Sciences, 12th Edition.*
- ISBN: 9780134767628
- Authors: Lial, Hungerford, Holcomb, & Mullins
- Publisher: Pearson
- Year: 2019

Enter Access Code: WMLHME-PUREE-WOVEN-SPITE-TRAWL-PORES

Material to be covered: The Chapters are from the text above.

- Review of Chapter 1: Algebra and Equations.
- Chapter 2: Graphs, lines and inequalities.
- Chapter 3: Functions and graphs.
- Chapter 4: Exponential and logarithmic functions.
- Chapter 5 (5.1, 5.2): Simple interest and compound interest.
- Chapter 11: Differential Calculus
- Chapter 12 (12.1 - 12.3): Local extrema, second derivatives and optimization.

Lectures

The lectures in this course will be delivered online over Zoom in the scheduled time. They will be also recorded and posted on ICON. The links to Zoom meetings can be found on the ICON sites of this course (sections 0EXA and 0EXB).

Top Hat Platform will be used for every lecture.

Grading:

Norm-based grading is used in the course which is based on how others in the class perform. This method is generally used in large lecture courses or coordinated multi-section courses. The distribution of grades may be based on CLAS recommendations. Plus/minus grading will be used.

Homework: 10%, assigned weekly on MyLab and Mastering

Quizzes: 12%, assigned weekly on Thursday's discussion session (except the exam weeks, first and last weeks of the semester)

Midterm 1: 20%, Wednesday, March 1, 6:30 – 8:00 pm

Midterm 2: 20%, Wednesday, April 5, 6:30 – 8:00 pm

Final Exam: 30%, to be announced by Registrar

Class Response/Attendance (over Top Hat): 8%, every lecture beginning the second week

Read [Exam Policies](#)

Grade distribution: Final grades will be assigned on a curve, which will be determined after the final examination. The final grades will not be lower than the following:

A+	A	A-		B+	B	B-		C+	C	C-		D		F	
>99	>94	>90		>85	>80	>75		>68	>62	>55		50 - 55		< 50	

Getting help:

- The mathematics tutorial lab, 125 (MacLean Hall):

The Math Lab is a **free drop-in** tutorial service staffed by Teaching Assistants from the Department of Mathematics. Check out the web page <https://math.uiowa.edu/math-tutorial-lab> for hours. Regular Math Lab hours will start in the second week of classes. Your TA and other course TAs will be available at various times in the Math Lab. The Lab provides one of the best ways of getting personalized help. Practice exams and quizzes are also available in the Lab. From time-to-time tutorials on special topics may be offered as well. It is strongly recommended that you make use of this service.

- Your SI Leader and SI Sessions

Gabby Nolan, gabrielle-nolan@uiowa.edu, will be the SI Leader for MATH:1350. The SI session times are below:

Quantitative Reasoning for Business	Mondays 12:30-1:20 PM
MATH:1350	Wednesdays 11:30 AM-12:20 PM
SI Leader: Gabby Nolan	Thursdays 2:00-2:50 PM

SI sessions will begin on Sunday, January 22nd and all sessions will be offered in person! Sessions take place in the Academic Resource Center (ARC), which is located on the ground floor of the Iowa Memorial Union (IMU), next to Java House & Hills Bank. We will not offer SI sessions Sunday, March 11 - Sunday, March 19, due to spring break, or during finals week.

- Tutor Iowa: <https://tutor.uiowa.edu/>

- 24/7 Pearson Tech support

<https://support.pearson.com/getsupport/s/>

Course Policies:

Academic Honesty and Misconduct

All students in CLAS courses are expected to abide by the [CLAS Code of Academic Honesty](#). Undergraduate academic misconduct must be reported by instructors to CLAS according to [these procedures](#). Graduate academic misconduct must be reported to the Graduate College according to Section F of the [Graduate College Manual](#).

Class attendance: Regular and prompt attendance is mandatory for this course. Since a substantial percentage of your grade will be based on class attendance and participation (8%), it is in your interest to attend every class and to arrive with significant contributions to make to discussions.

Rules on Student Collaboration: In this class, students are allowed to talk with others about homework. However, do not share your written work with others or ask others to see their completed assignments since both are considered academic misconduct. Students are responsible for understanding this policy; if you have questions, ask for clarification.

Participation in class discussions: Students are strongly encouraged to ask questions and participate in class discussions.

Homework assignments will be announced weekly (beginning the second week) on ICON via MyLab and Mastering.

Quizzes: There will be weekly quizzes given on Thursdays approximately every week (excluding the weeks of the exams), consisting of problems similar to those assigned as homework. Taking all quizzes and the three exams (two midterms and final) is mandatory. The two lowest quiz scores will be dropped at the end of the semester.

Class Response Questions: Attending and participating in class will increase your chances of doing well in the course. During the lectures, you will be using your Top Hat account to indicate you are attending the lecture and to *answer questions* over the lecture material. You will earn points for each question you answered. Attendance and correct answers will bring your up to 8% of your final grade.

Make-ups may be given for the exams missed due to unavoidable circumstances and compelling reasons which are documented in writing. If you have a conflict or a medical reason, discuss your situation with the instructor as soon as possible. Students with mandatory religious obligations or UI authorized activities must discuss their absences with me as soon as possible. Religious obligations must be communicated within the first three weeks of classes.

Student Complaints

Students with a complaint about a grade or a related matter should first discuss the situation with the instructor and/or the course supervisor (if applicable), and finally with the Director or Chair of the school, department, or program offering the course.

Undergraduate students should contact [CLAS Undergraduate Programs](#) for support when the matter is not resolved at the previous level. Graduate students should contact the [CLAS Associate Dean for Graduate Education and Outreach and Engagement](#) when additional support is needed.

Drop Deadline for this Course

You may drop an individual course before the deadline; after this deadline you will need collegiate approval. You can look up the [drop deadline for this course](#) here. When you drop a course, a “W” will appear on your transcript. The mark of “W” is a neutral mark that does not affect your GPA. Directions for adding or dropping a course and other registration changes can be found on the [Registrar’s website](#). Undergraduate students can find policies on dropping and withdrawing [here](#).

Date and Time of the Final Exam

The final examination date and time will be announced by the Registrar generally by the fifth week of classes and it will be announced on the course ICON site once it is known. **Do not plan your end of the semester travel plans until the final exam schedule is made public. It is your responsibility to know the date, time, and place of the final exam.** According to Registrar's final exam policy, students **have a maximum of two weeks after the announced final exam schedule** to request a change if an exam conflict exists or if a student has more than two exams in one day (see the [policy](#) here).

Communication: UI Email

Students are responsible for all official correspondences sent to their UI email address (uiowa.edu) and must use this address for any communication with instructors or staff in the UI community.

University Policies

[Accommodations for Students with Disabilities](#)

[Basic Needs and Support for Students](#)

[Classroom Expectations](#)

[Exam Make-up Owing to Absence](#)

[Free Speech and Expression](#)

[Mental Health](#)

[Military Service Obligations](#)

[Non-discrimination](#)

[Religious Holy Days](#)

[Sexual Harassment/Misconduct and Supportive Measures](#)

[Sharing of Class Recordings](#)