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

Course meeting time: MWF, 1:30 – 2:20 (MATH:1350:0BBB) Online
2:30 – 3:20 (MATH:1350:0AAA) Online

Zoom link is given on the ICON page of lecture sections.

Department of Mathematics: [https://math.uiowa.edu/](https://math.uiowa.edu/)

Course ICON site: To access the course site, log into Iowa Courses Online (ICON)
[https://icon.uiowa.edu/index.shtml](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 (over Zoom or in-person)
E-mail: sergii-bezuglyi@uiowa.edu

Teaching assistant:
Office location:
Student drop-in hours:
E-mail:

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 (homework assignments, quizzes, make-ups, etc.) 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:
- ISBN: 9780137892365
- Authors: Lial, Hungerford, Holcomb, & Mullins
- Publisher: Pearson
- Year: 2022

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 0AAA and 0BBB).

Top Hat Platform will be used for every lecture.

Grading:
With criterion-referenced grading, students receive letter grades based on the quality of their work in relation to the criteria defined by the instructor against an absolute scale that is provided for each assignment or the course. Minimum cutoffs for each course letter grade are listed below. You should not view this as a fixed, predetermined grade scale for determining final grades, but rather as a guaranteed minimum scale. Cutoffs may be lowered at the discretion of the instructor. Plus/minus grading will be used.

Homework: 15%, assigned weekly beginning the second week
Quizzes: 12%, assigned weekly on Thursday's discussion session (except the exam weeks, first and last weeks of the semester)
Midterm 1: 20%, Wednesday, October 4, 6:30 – 8:00 pm
Midterm 2: 20%, Wednesday, November 8, 6:30 – 8:00 pm
Final Exam: 25%, to be announced by Registrar
Class Response/Attendance (over Top Hat): 8%, every lecture beginning the second week
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:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Lower Bound</th>
<th>Upper Bound</th>
</tr>
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<tbody>
<tr>
<td>A+</td>
<td>&gt;99</td>
<td></td>
</tr>
<tr>
<td>A</td>
<td>&gt;94</td>
<td>&gt;90</td>
</tr>
<tr>
<td>A-</td>
<td>&gt;85</td>
<td>&gt;80</td>
</tr>
<tr>
<td>B+</td>
<td>&gt;75</td>
<td>&gt;70</td>
</tr>
<tr>
<td>B</td>
<td>&gt;68</td>
<td>&gt;62</td>
</tr>
<tr>
<td>B-</td>
<td>&gt;55</td>
<td>&gt;50</td>
</tr>
<tr>
<td>C+</td>
<td>&gt;55</td>
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<td>C</td>
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<td>C-</td>
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<td>F</td>
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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
SI Leader for MATH:1350 is Kathleen Ripley. The SI session times are below:

<table>
<thead>
<tr>
<th>Quantitative Reasoning for Business</th>
<th>Mondays 5:30-6:20 PM</th>
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</thead>
<tbody>
<tr>
<td>MATH:1350</td>
<td>Wednesdays 12:30-1:20 PM</td>
</tr>
<tr>
<td>SI Leader: Katie</td>
<td>Thursdays 11:00-11:50 AM</td>
</tr>
</tbody>
</table>

SI sessions will begin on Sunday, August 27th and all sessions will be offered in the Academic Resource Center (ARC), which is located on the ground floor of the Iowa Memorial Union (IMU). We will not offer SI sessions Sunday, September 3 and Monday, September 4 due to Labor Day weekend, during fall break (Sunday, November 19 - Sunday, November 26), or during finals week (Sunday, December 10 - Friday, December 15).

- 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.

**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. Correct answers will bring more points. Attendance and answers will bring your up to 8% of your final grade.

**Make-up**

*University regulations require that students be allowed to make up examinations* that have been missed due to illness, religious holy days, military service obligations (including service-related medical appointments), or other unavoidable circumstances or University-sponsored activities. Students with UI-authorized activities must discuss their absences with the instructor 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.

**Mental Health Resources and Student Support**
CLAS encourages instructors to draw students’ attention to the expanded language on mental health resources in this template at the beginning of the course and frequently throughout the semester. Students are encouraged to be mindful of their mental health and seek help as a preventive measure or if feeling overwhelmed and/or struggling to meet course expectations. Students are encouraged to talk to their instructor for assistance with specific class-related concerns. For additional support and counseling, students are encouraged to contact University Counseling Service (UCS). Information about UCS, including resources and how to schedule an appointment, can be found at counseling.uiowa.edu. Find out more about UI mental health services at mentalhealth.uiowa.edu.

**University Policies**
- [Accommodations for Students with Disabilities](#)
- [Basic Needs and Support for Students](#)
- [Classroom Expectations](#)
- [Free Speech and Expression](#)
- [Military Service Obligations](#)
- [Non-discrimination](#)
- [Religious Holy Days](#)
- [Sexual Harassment/Misconduct and Supportive Measures](#)
- [Sharing of Class Recordings](#)