

MTH 110 Syllabus

Mathematical Foundations of Business Analysis
University of Rhode Island Spring 2018

Instructor Contact Information

Name: Joshua Gilmore
Email: Joshua_Gilmore@uri.edu
Office: Ballentine Hall, Room 236
Office Hours: MWF 10:00 – 10:45 AM, MWF 12:00 – 1:45 PM
or by appointment (email me to schedule a time that works for both of us – Please note I am not on campus Tuesdays or Thursdays)

Required Course Materials

- Text: S. Tan, *Applied Mathematics* (Sixth Edition – 2008)
- Scientific calculator (I strongly recommend a TI-30Xa)

MTH 110 Catalog Description

Equations of first and second degree. Inequalities. Exponential and logarithmic functions. Emphasis on business applications. Introduction to linear algebra and matrices. Introduction to spreadsheets. Designed for students who want to strengthen their background in mathematics before BUS 111. This course does **not** count as a math general education credit and is designed for business majors.

Course Expectations

- Attend each class. Come prepared and be punctual. If you must be absent, contact me prior to your absence and explain to me why you will miss class
 - Doing well in this course requires effort on your part: come to class, be ready to learn, review your notes regularly, and ask questions. We will devote some class time each day to addressing any problems or concerns you may have. You are also always welcome to email me or stop by my office to ask questions.
 - Be respectful of yourself and your classmates. This means cell phones should be turned off or on silent during class time and the work that you submit must be your own (unless otherwise stated)
 - Use of unauthorized aids such as cheat sheets will be considered cheating. The University of Rhode Island strongly promotes academic integrity. In support of honest students, those discovered cheating on assignments/exams will receive a grade of zero on the assignment/exam.
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Grading Policy

Your grade will be based on exams in class, a comprehensive final exam, web assignments, homework and quizzes about which you will be informed in class.

Online Homework	15%
Quizzes	15%
Exams (3 total)	45%
Final Exam	20%
Participation/Attendance	5%

Grading Scale

A class-wide scale will be used in this course. Please remember that grades are not negotiable and no extra credit is offered on an individual basis (please do not ask!). Letter grades will be assigned using the following conversion scale:

Numeric Average	Letter Grade
92.5 and above	A
90.0 – 92.4	A-
87.5 – 89.9	B+
82.5 – 87.4	B
80.0 – 82.4	B-
77.5 – 79.9	C+
72.5 – 77.4	C
70.0 – 72.4	C-
67.5 – 69.9	D+
60.0 – 67.4	D
Below 60.0	F

****NOTE:** Any student who has above a 93% average before the end of the semester (before the final exam, with all other course work complete) will be exempt from the cumulative final exam pending a conversation with me.

Make-Up Policy

- I will announce the exam dates throughout the semester, but they are already available on the syllabus so that you can plan ahead. If you are unable to take the exam at the announced time/day due to illness, you must notify me by email or in person with appropriate documentation (i.e. doctor's note) **at least 24 hours to the date of the exam**. Failure to take an exam at the announced day/time without prior notification will result in the revocation of the privilege of a make-up exam.
- I will generally quiz you each week and announce to you what material will be covered on each week's quiz. Quizzes will only be made up with a doctor's note dated the date of the quiz excusing you from the class that day. No exceptions.
- *Your attendance in class is critical.* You are responsible for any material you miss. I will not reteach material during office hours – you will need to gather what you missed from a peer.

Homework Expectations

Homework is an integral component to help you do well in this course. Each homework assignment is expected to reflect your best work. Homework assignments will be posted on Sakai. They can be found under the 'Homework' tab and **will be due on Sunday evenings**. You will be allowed more than one submission for each assignment and only your best grade will be recorded. Start the homework assignment early to ensure you give yourself adequate time to complete it. **NO LATE WORK WILL BE ACCEPTED, regardless of the excuse.**

- **Please note:** If you would like feedback on any uncollected problems, please feel free to come see me during my office hours. I would be happy to go through the suggested problems (see these problems below) with you.

SAKAI

It is your responsibility to check SAKAI on a *daily* basis. Important announcements will be posted to SAKAI and you will be held responsible for all of the information posted there. SAKAI will also provide:

- A comprehensive, updated grade book to allow you to keep track of your grades
 - Access to the online homework
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University of Rhode Island's civility policy

The University of Rhode Island is committed to developing and actively protecting a class environment in which respect must be shown to everyone in order to facilitate the expression, testing, understanding, and creation of a variety of ideas and opinions. Rude, sarcastic, obscene or disrespectful speech and disruptive behavior have a negative impact on everyone's learning and are considered unacceptable. The course instructor will have disruptive persons removed from the class if necessary.

Accommodations

If you have a document disability that may require individual accommodations, please make an appointment with me as soon as possible and provide written documentation so that, together, we may work out reasonable accommodations to support your success in this course. For further information or assistance, please contact URI's Disabilities Services for Students, Office of Student Life, in Room 330 of Memorial Union, or at (401) 874-2098.

Academic Enhancement Center

Regular study and practice with the course material is imperative for success in this class. The Academic Enhancement Center's Math Walk-In Tutoring Center can help you with this. Math Walk-In tutoring is a no-appointment-needed tutoring center where you can work with tutors and other students in this and other math courses. They provide free support. *Bring your book, notes, and questions with you.* Tutoring is a great place to practice with classmates and friends, prep for exams, and review. Check the website address for an up-to-date schedule for tutors' hours: <http://www.uri.edu/aec/walkin%20math>.

Furthermore, the fourth floor of Roosevelt Hall is dedicated to the Academic Enhancement Center. If you are having difficulty in this course, or any courses on campus, please call (401) 874-2367 to make an appointment with a tutor, or just stop by. They will provide you with academic support and advice free of charge, and have tutors available for many subjects. You can visit their website at <http://www.uri.edu/aec> for more information.

Course Calendar

Below you will find a working list of what topics can be expected to be covered in class this semester. Topics and dates listed below **may change** based on level of interest, level of understanding, or other related issues.

FINAL EXAM INFORMATION

The final exam for this course will be CUMULATIVE and will likely be scheduled during one of the common exam slots. More information will be given as it becomes available. General information on final exam scheduling can be found here: <http://www.uri.edu/es/calexams/FinalExamSchedule.html>. For now, do not plan to leave campus before the last day of scheduled final exams

Week of	Section	Topic(s) Addressed	Additional Suggested Problems
January 22	1.1	Review syllabus, pre-test	
	1.2	Real Number Polynomials	7-11 odd, 23-33 odd, 41-47 odd
January 29	1.3	Factoring Polynomials	15-35 odd
	1.4	Rational Expressions	1-41 odd
February 5	1.5	Integral Exponents	21-43 odd
	1.6	Solving Equations	9-35 odd, 41, 43
	1.7	Rational Exponents/Radicals	21-39 odd
February 12	1.8	Quadratic Equations EXAM ONE – Friday, February 16	1-15 odd, 27-3 odd
February 19	2.1	Coordinates	7-29 odd
	2.2	Equations of Lines, Intercepts	11-27 odd, 41-45 odd, 61, 63
February 26	2.3	Functions and Graphs	1-9 odd, 51-57 odd
	2.5	Linear Functions	11, 21-29 odd, 41, 43
March 5	2.6	Quadratic Functions	1-13 odd, 37, 39
	3.1	Exponential Functions	13-21 odd, 37, 39
March 12		Spring Break	
March 19	3.2	Logarithmic Functions EXAM TWO – Friday, March 23	1-9 odd, 29-35 odd, 49-53 odd
March 26	3.3	Exponential as Models	
	4.1	Math of Finance: Compound Interest	8, 11 – 29 odd, 37 – 43 odd, 57
April 2	4.2	Math of Finance: Annuities Intro	1, 3, 5, 15, 17
	5.1	Systems of Linear Equations	1-17 odd, 21-25 odd
April 9	5.2	Solving Systems of Equations	35-55 odd
	5.3	Solving Systems of Equations	
April 16		EXAM THREE – Wednesday, April 18	
	6.1	Systems of Inequalities	19-29 odd
April 23		Review for Final Exam*(Exam 1)	
April 30		Review for Final Exam*(Exams 2 & 3)	

Final Exam Date/Time TBA