

**Course Syllabus**  
**MTH110: Mathematical Foundations for Business Analysis**  
**Fall 2019 section 0004**  
**Instructor: Dr. Glenn Faubert**  
**Office hours:** \_\_\_\_\_  
**Preferred method of Contact:** Via SAKAI  
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**Goals of the Course**

The purpose of this course is to prepare students expecting to major in business for BUS111. This course does not provide credit for students majoring in mathematics nor does it fulfill a general education requirement. Students who would like to take BUS111 but who do not yet feel quite prepared for it should take MTH110.

**Required Text**

The text for the class is Applied Mathematics, by Tan, sixth edition, Brooks/Cole. Cengage Learning. There is a soft-cover University of Rhode Island custom edition which contains only chapters 1-6 of the full version. The student may find this more economical.

**Tests and Final exam**

The three semester tests will be given on the dates shown below. Tests are always closed book. No questions will be taken during the exam. You may have a calculator but never a cell phone on your desk during the exam. Cell phones must always be off and out of sight during exams. Cell phone interruptions during an exam will be penalized 1 point per second of interruption. Cell phones out on the desk during exam will be penalized 5 points. Cell phone handling during an exam will be penalized 50 points. A missed exam requires prior notification and written documentation that satisfies the instructor before any make-up is allowed. If the make-up is not or cannot be taken then the grade for the exam will be zero. The date of the final exam will be during final exam week as determined by the University.

**Homework**

Every student should keep a homework notebook. This notebook should be single subject sized and reserved for MTH110 homework only. In addition, a few homework problems will be assigned and collected almost daily. Collected homework must be neat include the statement of the problem and show all work justifying the answer.

**Classwork/Participation**

Assignments will be given in class from time to time. These assignments will either be closed book and announced, or will be open book and unannounced. A student absent without a sanctioned excuse will receive a quiz grade of zero. There are no makups for missed quizzes, or being absent unsanctioned.

**Missing Class**

Students needing to miss a lecture must notify the instructor USING SAKAI, prior to the start of class. Students that provide notice will not be penalized for unannounced quizzes nor for being absent if called on to answer a question. Students missing exams will require prior notification and written documentation which satisfies the instructor that a make-up exam is justified. Missing exams without notification means an automatic zero for the exam.

## Grading

Your final grade for course will be based upon 3 semester tests, a final exam, classwork/participation, and a homework notebook.

<b>Test 1</b>	<b>16%</b>
<b>Test 2</b>	<b>16%</b>
<b>Test 3</b>	<b>16%</b>
<b>Classwork</b>	<b>10%</b>
<b>Homework</b>	<b>10%</b>
<b>Final exam</b>	<b>32%</b>

Your letter grade will be based on your overall percent grade as follows. Grades are not negotiable. Individual extra credit assignments will not be given.

### Letter grades will be assigned as follows:

<u>Grade</u>	<u>Minimum %</u>
<b>A</b>	<b>93</b>
<b>A-</b>	<b>90</b>
<b>B+</b>	<b>87</b>
<b>B</b>	<b>83</b>
<b>B-</b>	<b>80</b>
<b>C+</b>	<b>77</b>
<b>C</b>	<b>73</b>
<b>C-</b>	<b>60</b>
<b>D+</b>	<b>65</b>
<b>D</b>	<b>60</b>
<b>F</b>	<b>0</b>

### Honor code

If you are caught breaking the URI honor code, you could be given an F for the assignment or the class. As a student of higher standards, you pledge to embody the principles of academic integrity. You may work with other students on your homework assignments as follows: You may discuss concepts, principles and methods with each other; however, you must prepare your own final submission separately. You are not to copy another student's homework. Collaboration among students is not permitted during examinations.

### Disabilities

Students with special requirements and proper documentation through Disability Services should inform their instructor as early as possible. University regulations require that documentation be provided at least one week before special consideration is given.

**Following is a schedule for MTH110 Section 0004, Fall 2019**

<b>Week</b>	<b>Events</b>	<b>Section</b>	<b>Suggested Exercises</b>
09/02/19	Real Numbers	1.1	1-10, 17,19,21,27
	Polynomials	1.2	1-11 odd, 23-33 odd, 41-45odd, 57
09/09/19	Factoring Polynomials	1.3	1-9 odd, 11-33 odd
	Rational Expressions	1.4	1-9, 13-35 odd, 39, 41
	Integer Exponents	1.5	1-41odd, 49,51
09/16/19	Solving Linear Equations	1.6	1-9 odd, 13-17odd, 21-33 odd, 39-43 odd
	Rational Exponents/Radicals	1.7	1-39 odd
09/23/19	Quadratic Equations	1.8	1-7 odd, 11-15 odd, 27-31odd
	Inequalities	1.9	11,13,15,57
09/30/19	Review		<b>Mid term Exam 1 Friday Oct 4</b>
10/07/19	Coordinates	2.1	7-12,13,15,17,21-28
	Equations of Lines	2.2	1-6,11-27odd,41,43,45, 61, 63
	Monday class meets Tuesday		
10/14/19	Functions and Graphs	2.3	1,3,23-31 odd, 51-57
	Linear Functions	2.5	11,12,21-26,28,29, 41a-b, 42a
10/21/19	Quadratic Functions	2.6	1 - 13 odd, 36, 37, 39b
	Exponential Functions	3.1	13-18, 36a
10/28/19	Logarithmic Functions	3.2	1-9 odd, 29-35, 49-53
	Review		<b>Mid term Exam 2 Friday Nov 1</b>
11/04/19	Math. Models with Exp & Log	3.3	5 (see 4), 11, 13, 15, 17
	Compound Interest	4.1	1-17 odd, 21 23, 25, 27, 37,39,43,52,57,58
	No Class Monday		
11/11/19	Annuities	4.2	1,3,5,15,17
	Systems of Linear Equations	5.1	1,3,5,11,16,18,24
	Unique Solutions	5.2	1-7 odd, 27, 37, 43
11/18/19	Under/Over determined systems	5.3	1,3,5,13,15,19,23
11/25/19	Systems of Inequalities	6.1	1-17 odd
	No Class Wed, Fri		
12/02/19	Review		<b>Mid term Exam 3 Friday Dec 6</b>
12/09/19	Final Review		
TBA	Final Exam		<b>Final exam, see URI exam schedule</b>