MTH 101: Intermediate Algebra

Summer 1, 2017

Purpose: This course is aimed at helping student(s) become proficient in algebra, in order to build a firm foundation in preparation for MTH 111. Problem solving and applications will be emphasized throughout. MTH 111 requires a C- or better in this course.

Course Description: LEC: (3 crs.) Introduction to algebraic manipulation, solving equations and inequalities in one variable. Plotting points and graphing elementary functions. Interpreting and expressing mathematics. Intended for STEM majors who are not prepared to take MTH 111. Not for credit for mathematics majors, not for general education credit, and not open to students with a C- or better in MTH 131 or MTH 141.

Prerequisite(s): S in MTH 099.

Credit Hours: 3

Learning Outcomes:

1. Perform arithmetic operations on polynomials using the rules of exponents.
2. Factor using GCF, difference of two squares, sum/difference of two cubes, trinomials and grouping. Solve quadratic equations by factoring.
3. Perform arithmetic operations on rational and radical expressions and functions.
4. Solve rational and radical equations and solve quadratic equations by the quadratic formula.
5. Use the relationship between the equation of a line and its graph;
6. Solve relevant applications (exponents, quadratic equations, rational expressions).
Required Materials


Other Required Material(s): MyMathLab Online Homework Access Code (Details are provided below).

Grade Distribution

Final grades will be based on class assignments (quizzes and groupworks), online MyMathLab homework, three in-class exams, and an in-class cumulative final exam (see date). The grade distribution is as follows:

<table>
<thead>
<tr>
<th>Grade Distribution</th>
<th>Details</th>
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<tbody>
<tr>
<td>15% Class Assignments</td>
<td>Students are expected to be active participants in this course. This includes attending class regularly and completing any/all assignments. Some of these assignments may include class/group activities, projects, or quizzes.</td>
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<tr>
<td>10% Homework</td>
<td>Homework will be completed online through MyMathLab.</td>
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| 45% Exams | There will be 3 exams. They will be in class and one-hour long.  
*Exam 1 on Chapter 5: Wednesday 5-31-17*  
*Exam 2 on Chapter 6 and section 7.1: Wednesday 6-7-17*  
*Exam 3 on Chapter(s) 7, 9: Wednesday 6-14-17*  
*Absolutely no calculators are allowed on any exams.* |
| 30% Final Exam | This is a cumulative 3-hour long final on the last day of class. It will cover ALL material learned in class.  
*Wednesday 6-21-17* |

Assignments will not be graded on a curve nor will any extra credit be made available.

Letter Grade Distribution

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<tr>
<th>Grade</th>
<th>93.00 – 100.00</th>
<th>90.00 – 92.99</th>
<th>87.00 – 89.99</th>
<th>83.00 – 86.99</th>
<th>80.00 – 82.99</th>
<th>77.00 – 79.99</th>
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<tbody>
<tr>
<td>A</td>
<td>73.00 – 76.99</td>
<td>70.00 – 72.99</td>
<td>67.00 – 69.99</td>
<td>60.00 – 66.99</td>
<td>0.00 – 59.99</td>
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</table>
Sakai: I will use Sakai for your grades, homework solutions and various resources. You will get an email when I post anything to Sakai.

Other Policies:

- Please come to class prepared by reading over the text to be covered and by bringing your book, notebook and pencil. **Pencils only please.**
- You are here to learn, so please give class your full attention, ask questions if you do not understand and be respectful and courteous to your fellow students and instructor.
- No calculators or cell phones are permitted in this class.
- No disruptive behaviors:
  - Sleeping, eating, texting, talking on, making or receiving cell phone calls, connecting/listening to any MP3/Electronic devices, reading non-course material, cursing, leaving early.
  - Other behaviors that distract from the learning process.
- During tests and the final, no hats may be worn and desks must be clear.
- No cheating of any kind will be allowed. Cheating will be grounds for failing this course. All URI University policies apply including the **Academic Honesty** policy found in your student handbook.
- **Students requiring accommodations due to a documented disability (through the Disability Services for Students: Office of Student Life) should make their requests as soon as possible.**
- Extra help is available from me, from the Academic Enhancement Center, or from Math department tutors. Helpful online resources include puplemath.com and khanacademy.org.

Incomplete Grade

University of Rhode Island regulations concerning incomplete grades will be followed. See University Manual sections 8.53.20 and 8.53.21 for details.

MyMathLab Online Homework

MyMathLab is an online homework system that will be used for the homework assignments in this course.

A MyMathLab registration code is required. A registration code comes bundled with each new version of the textbook sold at the bookstore, or can be purchased separately if you want to use a used textbook. MyMathLab also comes with an electronic version of the textbook.

MyMathLab assignments will be constant over all sections of the course. You are responsible for getting MyMathlab set up and enrolling in the online section of your course in a timely fashion.
Using Your Registration Code to Sign Up

See MyMathLab Sign Up Instructions under resources on Sakai.

Availability and Due Dates

See the assignment calendar (last page of syllabus).

Attempts

For online assignment, you have three attempts for each question. If you are unsuccessful after all three attempts, you may click similar problem to try again. This process can be repeated until you are successful.

Attendance Policy:

1. Attendance for classes is required and class participation is strongly encouraged. You are responsible for all material covered in class and any changes made to homework or dates whether or not you are there. Please find someone in class to communicate with.
2. Attendance for tests and the final exam are required. Absence from a test or the final exam without prior arrangements with me will result in a failing grade for the course. In the case of an emergency, please contact me immediately via email. Failure to do so will result in failing this course. Make-up tests are allowed only if valid excuses are provided and prior arrangements are made. I reserve the right to ask for proof of emergency.

Instructor: Jean Guillaume (jean_guillaume@uri.edu)
Office: 102 E, Lippitt Hall
Office Hours: 2 hours before each class and by appointment.
## Summer 1, 2017 Schedule

(Subject to change)

<table>
<thead>
<tr>
<th>Day</th>
<th>Date</th>
<th>Section Assignments</th>
<th>Due Dates</th>
<th>Suggested Problems</th>
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</thead>
</table>
| M   | 5-22-17 | 5.1, 5.2, 5.3, 5.4 | 5-28-17   | 5.1: 7-69 (odd #)  
                              |          |                     | 5.2: 7-81 (odd #)   
                              |          |                     | 5.3: 5-67 (odd #)    
                              |          |                     | 5.4: 7-29, 33-54     |
| W   | 5-24-17 | 5.5, 5.6, 5.7       | 5-28-17   | 5.5: 11-73 (odd #) 
                              |          |                     | 5.6: 9-29, 33        
                              |          |                     | 5.7: 5-25            |
| M   | 5-29-17 | No Class (holiday)  |           |                    |
| W   | 5-31-17 | Exam 1              | 6-4-17    | 6.1: 11-23, 27-93 (odd #) 
                              |          |                     | 6.2: 13-63 (odd #)   
                              |          |                     | 6.3: 3-39 (odd #)    |
| F   | 6-2-17  | Conversion Day      | 6-5-17    | 6.4: 1-11, 15-49 (odd)  
                              |          |                     | 6.5: 5, 7, 13, 15-19, 23-27, 37-57 
                              |          |                     | 6.6: 3-55 (odd)      
                              |          |                     | 6.7: 9-53 (odd)      
                              |          |                     | Last Day to Drop Course |
| M   | 6-5-17  | 7.1, 7.2, 7.3, 7.4  | 6-11-17   | 7.1: 9-17, 25-41, 51-57, 61-75 (odd #) 
                              |          |                     | 7.2: 7-15, 37-59 (odd #)  
                              |          |                     | 7.3: 9-41 (odd #)     
                              |          |                     | 7.4: 13-45 (odd #)    |
| W   | 6-7-17  | Exam 2              | 6-11-17   | 7.5: 5-23 (odd) 
                              |          |                     | 9.1: 2.41, 65-85 (odd) 
                              |          |                     | 9.2: 11-25, 57-93 (odd) |
| M   | 6-12-17 | 9.3, 9.4, 9.5, 9.6  | 6-14-17   | 9.3: 9-19, 25-51, 63-93 + app (odd #) 
                              |          |                     | 9.4: 5-21, 41-51, 53, 55 
                              |          |                     | 9.5: 7-23, 27-47 (odd #) 
                              |          |                     | 9.6: 7-55 (odd #)     |
| W   | 6-14-17 | Exam 3              | 6-18-17   | 10.1: 5-37 (odd #) 
                              |          |                     | 10.2: 9-33 (odd)      
                              |          |                     | 10.3: 5-21            |
| M   | 6-19-17 | 10.4, 10.5          |           | 10.4: 7-23, 31-61 (odd #) 
                              |          |                     | 10.5: 5-29, 23-29 (odd #) |
| W   | 6-21-17 | In Class Final      |           |                    |