# McLennan <br> COLLEGE 

WACO, TEXAS

## COURSE SYLLABUS

## AND <br> INSTRUCTOR PLAN

INTERMEDIATE ALGEBRA
(Online)
MATH 0311.87

NOTE: This is a 6 week course.

LISA LINDLOFF

## Course Description:

Provides further study of algebraic concepts, operations, and applications to real world problems. Additional topics may include factoring polynomials and solving equations with quadratic models, operations with rational expressions and solutions of rational equations, further investigation of linear functions and linear inequalities, operations with radical expressions and solutions of radical equations, various solution methods for quadratic equations, graphing quadratic functions, and graphing systems of linear inequalities. Prerequisite: MATH 0307, or MATH 124,125,126 or TSI math score between 342-349, or equivalent score on approved alternative test, or consent of division director. Semester Hours 3 (3 lec)

## Prerequisites and/or Corequisites:

MATH 0307, or MATH $124,125,126$ or TSI math score between 342-349, or equivalent score on approved alternative test, or consent of division director.

## Course Notes and Instructor Recommendations:

Math 0311 in an internet format involves no face to face class meetings. All online instruction can be found by logging in at www.coursecompass.com. Not only will homework be available at this site, but an electronic version of the textbook, class notes, and both publisher and instructor lecture videos. There are review for tests and numerous other learning aids available. This course in an online format involves using the internet to view all lessons, do homework, and tests. No visits to campus are required.

## Instructor Information:

Instructor Name: Lisa Lindloff
MCC E-mail: LLindloff@mclennan.edu
Office Phone Number: 254-299-8802 Office Location: HPE 215
Office/Teacher Conference Hours: TBA

## Required Text \& Materials:

Title: MyMathLab Student Access Kit (Standalone) ISBN-13: 9780321199911
Author: N/A Edition: N/A
Publisher: Pearson
No hardcopy textbook is required
MCC Bookstore Website: http://www.mclennan.edu/bookstore/

## Student Support/Resources:

MCC provides a variety of services to support student success in the classroom and in your academic pursuits to include counseling, tutors, technology help desk, advising, financial aid, etc. A listing of these and the many other services available to our students is available at http://www.mclennan.edu/campus-resource-guide/
College personnel recognize that food, housing, and transportation are essential for student success. If you are having trouble securing these resources, we encourage you to contact a success coach by calling (254) 299-8226. Students can visit the Completion Center Monday-Friday from 8:00 a.m.-5:00 p.m. to meet with a success coach and receive additional resources and support to help reach academic and personal goals. Paulanne's Pantry (MCC's food pantry) is open 12:00 p.m.-1:00 p.m., Monday-Friday, without an appointment. The Completion Center and pantry are located on the Second Floor of the Student Services Center (SSC).

## Minimum Technical Skills:

Students should have basic computer skills, knowledge of word processing software, and a basic understanding of how to use search engines and common web browsers.

## Backup Plan for Technology:

In the event MCC's technology systems are down, you will be contacted/notified through your MCC student email address. Please note that all assignments and activities will be due on the date specified in the Instructor Plan, unless otherwise noted by the instructor.

## Brightspace requirements: <br> https://www.mclennan.edu/center-for-teaching-andlearning/Faculty \% 20and \% 20Staff\% 20Commons/requirements.html (www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)

Click on the link above for information on the minimum system requirements needed to reliably access your courses in MCC's D2L|Brightspace learning management system.

## Methods of Teaching and Learning:

The following methods for teaching and learning will be used: lecture, online homework, written/online/group exams, and tutorial software. A three pronged approach is used in this course. For each instructional unit a worksheet, worked out notes for the worksheet, and video recording of the problems being worked will all be available on the website companion to this class (www.coursecompass.com). This link will take you to the CourseCompass discussion of system requirements. http://www.coursecompass.com/html/system_requirements.html
CourseCompass uses cookies and JavaScript technology. Both of these features must be turned on in your browser, and are usually turned on by default. For instructions on how to view or change these browser options, see your browser Help. For a detailed and up-to-date discussion of system requirements, log in to www.CourseCompass.com.If you have problems with accessing the website you can call Tech Support at 800-677-6337 Monday through Friday 8am - 5pm.

## Course Objectives and/or Competencies:

Students successfully completing Intermediate Algebra should be able to:

1. Factor polynomials and solve quadratic equations by factoring
2. Simplify and perform operations with rational expressions
3. Solve rational equations
4. Use slope and $y$-intercepts to graph linear equations
5. Write the equation of a line from given information
6. Solve inequalities involving absolute value
7. Graph linear inequalities in two variables
8. Simplify expressions with roots and radicals
9. Solve radical equations
10. Solve quadratic equations by the square root property, completing the square, and the quadratic formula
11. Solve application problems defined by a quadratic equation
12. Graph quadratic functions

## Course Grading Information:

Grading in this course will be based on homework, unit/chapter tests, and a comprehensive final exam according to the following percentages.
Online homework average: 20\%
Test average: $60 \%$
Before each test is available (online or face to face), all homework assignments must be completed with at least a $70 \%$ score for that unit. Each unit test may be taken twice and the higher score will be averaged in your course grade.
Final exam grade: $20 \%$. This exam may be taken only once.
Having someone else do your online homework assignment and cheating on a test are both violations of the academic integrity policy and either may result in failing grades and/or being dropped from the class. Infractions such as these will be reported to the administration for tracking and possible college action.

## Course Outline or Schedule:

Suggested 5 Week Calendar Math 0311

| Week |  |  |
| :---: | :---: | :---: |
|  | 6.2 | Factoring Trinomials |
|  | $6.3$ | Cont. Factoring Trinomials |
|  | 6.5 | Factoring Binomials |
|  | 6.6 | Solving Quadratic Eq by Factoring |
|  | 6.7 | Prob Solving w/ Quadratics |
|  | R | Review Ch 6 |
|  | T | Test Ch 6 (OBJ. 1) |

## Week <br> 4

| 10.1 | Intro Radicals |
| :---: | :--- |
| 10.2 | Rational Exponents |
| 10.3 | Simplifying Radicals |
| 10.4 | Add, Subtr, Mult Radicals |
|  |  |
| 10.5 | Rationalizing Denominators |
| 10.6 | Equations w/ Radicals |
| 10.7 | Complex Numbers |
| R | Review Ch 10 |
| T | Test Ch 10 (OBJ. 7,8) |


| Week <br> $\mathbf{2}$ |  |  <br> Simplifying <br> Mult \& Div Rational |
| :--- | :---: | :--- |
|  | 7.2 | Expressions <br> Add \& Subtr Rational <br> 7.4 |
|  | Expressions <br> 7.5 | Solving Equations w/ Rationals |
| 7.6 | Problem Solving w/ Rationals |  |
| 7.7 | Complex Fractions |  |
| R | Review Ch 7 |  |
| T | Test Ch 7 (OBJ. 2,3) |  |
|  |  |  |


| Week <br> $\mathbf{5}$ | 6.6 | Solving Quadratic Eq by Factoring |
| :---: | :---: | :--- |
| 11.1 | Solving Quadratic Eq by Square Root Property <br> and Completing the Square |  |
| 11.2 | Solving Quadratic Eq by Quadratic <br> Formula |  |
| R | Review Ch 11 <br> T <br> R <br> FE | Test Ch 11 (OBJ. 9,10,11) <br> Review for Final Exam <br> Final Exam (OBJ. 1-11) |


| Week | 3.6 | Function |
| :---: | :---: | :---: |
|  | 8.1 | Graphing \& Equations of Lines |
|  | 8.2 | Function Notation |
|  | 8.3 | Transformations |
|  | 9.4 | Graphing Linear Inequalities in Two Variables |
|  |  | and Systems |
|  | R | Review Chs. 3,8,9 (OBJ 4,5,6) |
|  | T | Test Chs 3,8,9 |

## Late Work, Attendance, and Make Up Work Policies:

Students will be given a suggested schedule, but he/she may work at their own pace to complete the course by the designated final due date. No intermediate due dates will be given...only the final due date will be enforced. Students may complete the course early, but extensions will not be given. Procrastination may cause a student to fall too far behind to meet the final due date. Following the suggested calendar is strongly encouraged. This is a 5 week class. Online attendance will be measured by weekly activity in the assignments. Although your progress may be flexible, you must login and participate in some assigned activity (homework or test) each week. If you have 2 weeks of inactivity in the course, you may be dropped from the course.

## Student Behavioral Expectations or Conduct Policy:

Students are expected to maintain classroom decorum that includes respect for other students and the instructor, prompt and regular attendance, and an attitude that seeks to take full advantage of the education opportunity Online students need to be respectful though online communication also.

## MCC Academic Integrity Statement:

* Click Here for the MCC Academic Integrity Statement (www.mclennan.edu/academic-integrity)
The link above will provide you with information about academic integrity, dishonesty, and cheating.


## MCC Attendance Policy:

## https://www.mclennan.edu/highlander-guide/policies.html

(www.mclennan.edu/highlander-guide/policies)
Click on the link above for the college policies on attendance and absences. Your instructor may have guidelines specific to this course.

## Accommodations/ADA Statement

Any student who is a qualified individual with a disability may request reasonable accommodations to assist with providing equal access to educational opportunities. Students should contact the Accommodations Coordinator as soon as possible to provide documentation and make necessary arrangements. Once that process is completed, appropriate verification will be provided to the student and instructor. Please note that instructors are not required to provide classroom accommodations to students until appropriate verification has been provided by the Accommodations Coordinator. Instructors should not provide
accommodations unless approved by the Accommodations Coordinator. For additional information, please visit mclennan.edu/disability.

Students with questions or who require assistance with disabilities involving physical, classroom, or testing accommodations should contact:
disabilities@mclennan.edu
254-299-8122
Room 319, Student Services Center

## TITLE IX

## * Click Here for more information about Title IX

(www.mclennan.edu/titleix)
We care about your safety, and value an environment where students and instructors can successfully teach and learn together. If you or someone you know experiences unwelcomed behavior, we are here to help. Individuals who would like to report an incident of sexual misconduct are encouraged to immediately contact the Title IX Coordinator at titleix @ mclennan.edu or by calling Dr. Drew Canham (Vice President for Student Success) at 299-8645. Individuals also may contact the MCC Police Department at 299-8911 or the MCC Student Counseling Center at MCC by calling 299-8210. The MCC Student Counseling Center is a confidential resource for students.

McLennan's Title IX webpage (http://www.mclennan.edu/titleix/) contains more information about definitions, reporting, confidentiality, resources, and what to do if you or someone you know is a victim of sexual misconduct, gender-based violence or the crimes of rape, acquaintance rape, sexual assault, sexual harassment, stalking, dating violence or domestic violence.

* You will need to access each link separately through your Web browser (for example: Internet Explorer, Mozilla, Chrome, or Safari) to print each link's information.

