McLennan

COMMUNITY

COLLEGE

WACO, TEXAS

COURSE SYLLABUS

AND

INSTRUCTOR PLAN

LINKED

INTERMEDIATE ALGEBRA / COLLEGE ALGEBRA

MATH 0311.01/MATH 1314.31

LISA LINDLOFF

NOTE: These are 16-week courses.

These are Blended/Hybrid courses.

Course Description:

Provides a study of algebraic concepts that may include: linear, quadratic, polynomial, exponential, logarithmic, and rational functions, their graphs, and applications in mathematical modeling; composition and inverses of functions, systems of linear equations and inequalities; matrices and determinants; and sequences and series. Problem solving with algebraic applications relevant to today's world is emphasized. Graphing calculator required. Semester Hours (3) for Math 0311 and (3) for Math 1314.

Prerequisites and/or Corequisites:

Prerequisite: MATH 0307 or TSI math score between 342-349, or equivalent score on approved alternative test, or consent of division director.

Course Notes and Instructor Recommendations:

This course has a major component (MyMathLab) that requires a good working knowledge of the computer. Online access is needed at a speed that will facilitate streaming video and downloading of materials.

Instructor Information:

Instructor Name:	Lisa Lindloff
MCC E-mail:	llindloff@mclennan.edu
Office Phone Number:	254 299-8802
Office Location:	MATH 215
Office Hours:	TBA

Required Text & Materials:

MyMathLab Access Code
ISBN for Blitzer's, 7th Ed College Algebra MML only: 9780134757926

No hard copy text required   TI 83/84 Graphing Calculator Required
 MCC Bookstore: 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).

MCC Foundation Emergency Grant Fund
Unanticipated expenses, such as car repairs, medical bills, housing, or job loss can affect us all. Should an unexpected expense arise, the MCC Foundation has an emergency grant fund that may be able to assist you. Please go to https://www.mclennan.edu/foundation/scholarships-and-resources/emergencygrant.html find out more about the emergency grant. The application can be found here (https://www.mclennan.edu/foundation/docs/Emergency_Grant_Application.pdf).

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.

* **Click Here for the Minimum System Requirements to Utilize MCC's D2L|Brightspace** (**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.

Email Policy:
McLennan Community College would like to remind you of the policy (http://www.mclennan.edu/employees/policy-manual/docs/E-XXXI-B.pdf) regarding college email. All students, faculty, and staff are encouraged to use their McLennan email addresses when conducting college business.

A student's McLennan email address is the preferred email address that college employees should use for official college information or business. Students are expected to read and, if needed, respond in a timely manner to college emails.

Instructional Uses of Email:
Faculty members can determine classroom use of email or electronic communications. Faculty should expect and encourage students to check the college email on a regular basis. Faculty

should inform students in the course syllabus if another communication method is to be used and of any special or unusual expectations for electronic communications.

If a faculty member prefers not to communicate by email with her/his students, it should be reflected in the course syllabus and information should be provided for the preferred form of communication.

Email on Mobile Devices:
The College recommends that you set up your mobile device to receive McLennan emails.

Forwarding Emails:
You may forward the emails that come to your McLennan address to alternate email addresses; however, the College will not be held responsible for emails forwarded to an alternate address that may become lost or placed in junk or spam filters.

Methods of Teaching and Learning:
This course is designated as blended this semester. That means that the class will physically meet on certain days, but online lessons will be provided with video lectures and notes on other days. To ensure safe social distancing, the class will be divided into 2 groups (cohorts). I will designate them as group A and group B. **Students will be informed by email and/or phone call prior to the start of the semester about which group they are assigned. It is important that students only attend on their designated days. Group A will attend class in-person on Mon and Wed while Group B will attend on Tue and Thu.** Ideally you would attend all 4 days together, but in this blended format you will do a % of the lessons by watching lecture videos and using available lecture notes. You will be responsible for online homework and online tests as noted in the calendar. If conditions dictate a need to go completely online, then all assignments will be presented in the online format and the weekly assignments will be completed without attending the class. MyMathLab is the online component that will house the course information and it will be accessed via Brightspace.

Course Objectives and/or Competencies:
Upon successful completion of 0311, students will:
1. Define, represent, and perform operations on real and complex numbers.
2. Recognize, understand, and analyze features of a function.
3. Recognize and use algebraic (field) properties, concepts, procedures (including factoring), and algorithms to combine, transform, and evaluate absolute value, polynomial, radical, and rational expressions.
4. Identify and solve absolute value, polynomial, radical, and rational equations.
5. Identify and solve absolute value and linear inequalities.
6. Model, interpret and justify mathematical ideas and concepts using multiple representations.
7. Connect and use multiple strands of mathematics in situations and problems, as well as in the study of other disciplines.

LINKED
INTERMEDIATE ALGEBRA/COLLEGE ALGEBRA
MATH 0311/1314

Upon completion of 1314 course, the student will be also able to:

1. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses
2. Recognize and apply polynomial, rational, radical, exponential, and logarithmic functions, and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.
6. Graph the following functions: linear, quadratic, piecewise-defined, absolute value, polynomial, rational, exponential, and logarithmic
7. Recognize and use transformations of functions such as shifting, stretching, shrinking, and reflecting
8. Solve quadratic equations in one variable by factoring, using the square root property, completing the square, using the quadratic formula, and by graphing
9. Solve both linear and non-linear inequalities and state the solution in interval notation
10. Find the zeros and extrema of polynomials both algebraically and by graphing
11. Solve exponential and logarithmic equations
12. Perform operations with matrices, find determinants of matrices, and use matrices to solve systems of equations
13. Interpret mathematical models such as formulas, graphs, and tables, and draw inferences from them
14. Use appropriate technology to enhance mathematical thinking and understanding and to solve mathematical problems and judge the reasonableness of the results, such as deriving functions which model sets of data .
15. Use critical thinking and problem solving techniques to solve real-world application problems

Course Grading Information:

Grading 0311:

There are 4 units for 0311: Introduction, Radicals, Polynomials, Rational Expressions
Homework must be completed at 70% to test over each of these units.
There are 4 tests over units in the 0311 portion. These may be online tests that may be taken up to 3 times. The tests must all be passed in order to receive credit for 0311. The 0311 grade will be based exclusively on these 4 tests and a possible comprehensive exam. Students will earn CR or NC. Grades earned for 0311 will not affect the grade for 1314.

Grading 1314:

Grading in this course will be based on homework, unit tests, and a comprehensive final exam according to the following percentages.

Online homework ave: 25% or 30%

Test average: 50%

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. Makeup tests will not be given.

Communication Project: 5% (IF APPLICABLE)

Final exam grade: 20%

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:

If changes need to be made, students will be informed in Brightspace and via emails and announcements in MML.

BLENDED CALENDAR

STUDENTS IN GROUPS A B

Week #	Dates	M	T	W	Th	ONLINE
		A	B	A	B	
1	8/23-8/29	Intro	Intro	IA1	IA1	IA2, T, IA3
2	8/30-9/5	IA 4	IA 4	IA5	IA5	IA6, IA7 (for group A)
3	9/6-9/12	HOLIDAY	IA8	IA7	IA8	T, IA9, IA10
4	9/13-9/19	IA11	IA11	IA12	IA12	IA13, IA14
5	9/20-9/26	IA15	IA15	1.5 F	1.5 F	1.5 SRP, 1.5 CS
6	9/27-10/3	1.5 QF	1.5 QF	1.5 VAR	1.5 VAR	R, T CH1
7	10/4-10/10	2.1	2.1	2.1/2.2	2.1/2.2	FINISH 2.2
8	10/11-10/17	2.3	2.3	2.4	2.4	2.5, 2.6
9	10/18-10/24	2.7	2.7	R	R	T CH 2
10	10/25-10/31	3.1	3.1	3.2	3.2	3.2, 3.3
11	11/1-11/7	3.4	3.4	3.4/R	3.4/R	T CH3
12	11/8-11/14	3.5	3.5	3.5	3.5	T CH 3.5
13	11/15-11/21	4.1	4.1	4.2	4.2	4.2, 4.3
14	11/22-11/28	4.3	4.3	HOLIDAY	HOLIDAY	4.4, 4.5, R/T CH4
15	11/29-12/5					REVIEW FOR EXAM
16	12/6-12/9	*				

* ONLINE FINAL DUE BY MON, 12/7 10AM

This course may use a variety of internal and external assessments. These core objectives will also be assessed using parts of a standardized test (CAAP). A faculty designed rubric will be used to assess communication skills as well. Review of such items such as GPA, retention levels, and success in following course may be used to evaluate the effectiveness of student learning.

- **Critical Thinking:** Students will use inductive and deductive reasoning, explore problems using logical process of inquiry, analysis evaluation and synthesis. Assessments will include discussion, independent practice, collaborative experience, instructional technology, or comprehensive final.

- **Communications:** Students will submit written assignments involving small research via internet or newspapers on Real World information. They will share with their instructor and/or class via written, oral, and/or visual methods. Assessments will use at least one of the following: board work, class time explanation, case study presentation, poster board presentation, and small group presentation. The evaluation process will use a departmental rubric for communication assessment.

Course name/number/section:
Student name/number:
Type of Communication Event:
___ Board work
___ Class time explanation
___ Personal interview
___ Case study presentation
___ Poster board project presentation
___ Small group presentation
___ Online presentation

	4	3	2	1
IN WRITTEN LANGUAGE	Student demonstrates full knowledge with no mistakes and elaborates on mathematical concepts.	Student demonstrates good knowledge but does not elaborate.	Student demonstrates limited knowledge but makes several mistakes.	Student does not have a grasp of the mathematical information.
	4	3	2	1
IN ORAL LANGUAGE	Student uses fluent and accurate words to describe mathematical concepts and processes.	Student uses somewhat appropriate words to describe mathematical concepts and processes.	Student uses vague words to describe mathematical concepts and processes.	Student uses incorrect and confusing words to describe mathematical concepts and processes.
	4	3	2	1
IN VISUAL PRESENTATION	Student uses appropriate and accurate visual representation of mathematical concepts and processes.	Student uses somewhat appropriate visual representation of mathematical concepts and processes.	Student uses some inaccuracy in visual representation of mathematical concepts and processes.	Student uses total inaccuracy in visual representation of mathematical concepts and processes.

- **Empirical/Quantitative:** Students will work on various mathematical problem solving skills throughout the course. The course focuses on the manipulation and analysis of numerical data or observable facts. These maybe presented in application problems and problem skill sets in which students demonstrate their ability to reach informed conclusions using the mathematical process. Assessment will include discussion, independent practice, collaborative experience, or instructional technology to include questions from a departmental test bank and/or the CAAP test.

Late Work, Attendance, and Make Up Work Policies:

In this blended class, there are expectations of doing assignments whether you attend class or are absent. Although there will be F-F lectures, a % of the lessons will be taught in a video lecture format. Whether you meet the class or are in a remote setting, homework and tests that are listed in the weekly calendar should be completed by the end of each week.

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. Students are expected to come to class prepared and with supplies necessary to participate actively in each class meeting.

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:

* **Click Here for the MCC Attendance/Absences Policy**

(**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. Attendance in our class will be taken by working on the weekly assignments and physically attended class. This may evolve during the semester as we navigate the situations dictated by the Covid-19 virus.

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. Any student or employee may report sexual harassment anonymously by visiting the following website: http://www.lighthouse-services.com/mclennan/. 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.