



WACO, TEXAS

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**COURSE SYLLABUS  
AND  
INSTRUCTOR PLAN**

**COLLEGE ALGEBRA  
MATH 1314.87  
An Online Course**

**JESS COLLINS**

**An Equal Opportunity Institution**

**Spring 2023**

COURSE NAME  
COURSE NUMBER & SECTION NUMBER

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**Course Description:**

In-depth study and applications of polynomial, rational, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics may be included.

3 semester hours credit

**Prerequisites and/or Corequisites:**

TSI math score at least 350, or MATH 0311 with a minimum grade of C, or pass college algebra placement test, or consent of Division Chair.

**Course Notes and Instructor Recommendations:**

Homework assignments, quizzes, and tests will be posted on the website MyLabMath under Assignments. These must be completed online through MyLabMath (you must purchase a MyMathLab code for this college algebra course). This code is available from the Bookstore or online at the Pearson MyLabMath website. All these assignments will have a due date; so you must complete them by the due date.

MyLabMath also has the electronic textbook with a number of instructional aides available for you to use. You have access to the textbook on line, a number of videos from each chapter to help you understand the concepts and see example problems worked out. The videos and other instructional materials are available in the Multimedia Library online as well.

**Email Correspondence:** I will respond to student email within 24 hours for communication received Monday through Saturday. It may be a bit slower response on Sunday, but I will try to respond to each email in a timely fashion. Be sure to contact me with questions and comments that you have about the course. I want to provide the help you need to be successful in the course.

**Consistent work on the homework assignments is extremely important!** Do not fall behind in the completion of assignments. Please contact me (preferably by email) when you are having difficulty. I will respond to your emails within 24 hours. Make use of free tutoring in the Tutoring Center , free video tutorials at Kahn Academy ([www.khanacademy.org](http://www.khanacademy.org)) , and free 24-7 on-line tutoring through SMARTHINKING (access through Brightspace).

**Instructor Information:**

Instructor Name: Jess Collins

MCC E-mail: [jcollins@mclennan.edu](mailto:jcollins@mclennan.edu)

Office Phone Number: 299-8176

Office Location: WF 115

COURSE NAME  
COURSE NUMBER & SECTION NUMBER

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Office/Teacher Conference Hours: MW 8:30 – 9:15 am  
12:45 – 1:30 pm  
TTh 8:30 – 9:15 am  
11: 00 – 12:00 noon  
Other hours by appointment

**Required Text & Materials:** Purchase the MyMathLab access code for the textbook below.  
**You do not need to purchase the textbook unless you desire to have a printed copy.**

Title: College Algebra, Integrated Edition

Author: Robert Blitzer

Edition: 7th

Publisher: Pearson

ISBN:

**A TI-83/84 graphing calculator is required to do the mathematical computation and graphing in this course.**

**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/>

\* [Click Here for the Minimum System Requirements to Utilize MCC's D2L|Brightspace](http://www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements)  
([www.mclennan.edu/center-for-teaching-and-learning/teaching-commons/requirements](http://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:**

*Lectures by Video and Power Point presentations; homework assignments from MyLabMath; Quizzes from vocabulary and concepts; short quizzes from videos; Word document presentations in Brightspace.*

COURSE NAME  
COURSE NUMBER & SECTION NUMBER

---

In an Online class, students need to be persistent in “attending” class and participating in the learning of mathematical concepts by watching instructional videos, taking notes, discussing and practicing new skills.

**In this course, some of the instructional materials are in Brightspace while many of the videos to view are in MyLabMath. All homework assignments, quizzes, and exams will be posted under Assignments in MyLabMath.**

**Course Objectives and/or Competencies:**

*Upon successful completion of this course, students will*

*Demonstrate and apply knowledge of properties of functions; including domain, range, operations, compositions, and inverses.*

*Recognize and apply polynomial, rational, exponential and logarithmic functions and solve related equations.*

*Apply graphing techniques with each type of function.*

*Evaluate roots of higher degree polynomial and rational functions.*

*Solve application problems related to each type of function studies.*

*Recognize, solve and apply systems of linear equations using matrices*

**Course Outline or Schedule:**

**The following course outline is tentative (subject to change); however, if changes are necessary, they will be posted as announcements in MyMathLab and in Brightspace.**

**MATH 1314.10 COURSE OUTLINE**

WEEK	TOPICS	WEEK	TOPICS
1	Introduction; register for MML; section 1.1, 1.2, 1.3	9	sections 4.1, 4.2
<u>2</u>	1.4, 1.5, 1.6	10	Sections 4.3, 4.4, 4.5
<u>3</u>	1.5, 1.6, 1.7	11	Section 4.5, <b>Exam 3.</b>  Section 5.1
<u>4</u>	2.1, 2.2, 2.3, 2.4	12	Sections 5.2, 5.4

COURSE NAME  
COURSE NUMBER & SECTION NUMBER

<u><b>5</b></u>	<b>Exam 1 (over concepts from weeks 1, 2,3, and 4.</b>  Sections 2.5, 2.8		<b>13</b>	Sections 6.1, 6.2, 6.3
<u><b>6</b></u>	Sections 3.1, 3.2, 3.3		<b>14</b>	Sections 6.4, 6.5,
<u><b>7</b></u>	Sections 3.4, 3.5, 3.6		<b>15</b>	<b>Exam 4</b> , Review for final exam
<u><b>8</b></u>	<b>Exam 2 (chapters 2 &amp;3), sections 2.6, 2.7</b>		<b>16</b>	Final Exam week
	<b>Spring Break March 6 - 10</b>			Final Exam is May 9

**Tentative Exam Dates**

<b>EXAM #</b>	<b>DATE</b>	<b>TOPICS COVERED</b>
1	February 6	Chapter 1
2	March 2	Chapters 2 and 3
3	April 3	Chapter 4
4	April 26	Chapters 5 & 6
FINAL EXAM	May 9	Cumulative exam

COURSE NAME  
COURSE NUMBER & SECTION NUMBER

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**Course Grading Information:**

Grades will be earned as A.....90% - 100%  
B .....80% - 89%  
C .....70% - 79%  
D .....60% - 69%  
F ..... Below 60%

The final grade will be determined from

Homework (30%)

Quizzes (20%),

Exams (40%)

Final exam (10%)

**Total: 100%**

*If an Exam is missed, the final exam grade will replace that grade. If more than one exam is missed, then these grades will be zeroes.*

*If all exams are taken on time, then the Final Exam grade will replace the lowest exam grade (this assumes that the final exam grade is higher than the lowest exam grade).*

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

Late work will not be accepted. If you know that you will be absent on the day of an exam, please contact me ahead of time and we will try to set a time for you to take the exam early.

**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.”*

\* [Click Here for the MCC Academic Integrity Statement](#)

([www.mclennan.edu/academic-integrity](http://www.mclennan.edu/academic-integrity))

The link above will provide you with information about academic integrity, dishonesty, and cheating.

\* [Click Here for the MCC Attendance/Absences Policy](#)

([www.mclennan.edu/highlander-guide-2016-17/policies](http://www.mclennan.edu/highlander-guide-2016-17/policies))

Click on the link above for the college policies on attendance and absences.