Course Information

Number:	MS197
Name:	College Algebra
Description:	This course will place a focus on traditional problem-solving methods in mathematics. Students will be asked to solve problems modeled by various functions including linear, quadratic, absolute value, polynomial, exponential, and logarithmic. Attention will be paid, throughout this course, to real-world applications from a broad range of disciplines such as the physical sciences and engineering, business, economics, social sciences, life sciences, health sciences, sports, and other areas of student interest.
Credit(s):	3
Offered (DAY schedule):	periodically
Instructor Permission Required:	N
Pre-Requisite(s):	MS120 or equivalent

Course Objectives

Upon completion of this course, the student should be able to: ? Solve proportional and rational equations algebraically. ? Solve linear, quadratic, exponential, logarithmic, absolute value equations and inequalities algebraically. ? Solve linear systems of equations, algebraically and using technology (computer software). ? Graph linear equations and inequalities in two variables. 1) Work with complex numbers. 2) Solve logarithmic and exponential equations. 3) Solve real-world problems involving different types of functional models. 4) Apply matrices to solve systems of linear equations 5)Solve problems involving probability.

MS197 **College Algebra** **Fall 2018**
Thomas College

INSTRUCTOR: Dr. Anne-Marie Thibodeau
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Office: AD110
Ext. 356
Office Hours: M-W-F 10:00-11:00 a.m., or by appt.

TEXT: **College Algebra and Trigonometry,** 6th ed., by Lial/Hornsby/Schneider/Daniels WITH **ACCESS to MyMathLab (required).** Purchase ACCESS code with new textbook, or, register (and pay) directly at start of class when Professor provides you with Course ID: http://www.pearsonmylabandmastering.com/northamerica/mymathlab/

TECHNOLOGY: MyMathLab
Desmos Graphing Calculator (www.desmos.com/calculator)

COURSE DESCRIPTION:
This course will place a focus on traditional problem-solving methods in mathematics. Students will be asked to solve problems modeled by various functions including linear, quadratic, absolute value, polynomial, exponential, and logarithmic. Attention will be paid, throughout this course, to real-world applications from a broad range of disciplines such as the physical sciences and engineering, business, economics, social sciences, life sciences, health sciences, sports, and other areas of student interest.

COURSE OBJECTIVES:
Upon completion of this course, the student should be able to:
- Solve proportional and rational equations algebraically
- Solve linear, quadratic, exponential, logarithmic, absolute value equations and inequalities algebraically
- Solve linear systems of equations algebraically and using technology
- Graph linear equations and inequalities in two variables
- Work with complex numbers
- Solve real-world problems involving different types of functional models
- Apply matrices to solve systems of linear equations
- Solve problems involving probability.

HOMEWORK:
Homework will be assigned and graded. ***Homework must be submitted by the class meeting for which it was assigned.*** **Late homework will be graded as '0'.** Homework must be completed in MyMathLab for the designated course; therefore, Access and registration to MyMathLab is required and must be purchased by the 1st week of class.

IF STUDENT HAS NOT CREATED AN ACCOUNT IN MYMATHLAB BY **9/5/2018**, HE/SHE WILL BE DROPPED FROM THIS COURSE.

If more than two weeks' worth of assignments are not submitted in MyMathLab, student will be dropped from this course.

Makeup Exams/Quizzes will not be given except under rare circumstances that will require official documentation (e.g., medical emergency room records), proof that the event was a non-reschedulable emergency.

GRADING:	Assignments:	15%
	Exams (3):	60% (each weighted equally)
	Final Exam	25%

PLEASE NOTE: Final Exam week is December 10 - 14. **Attendance at Scheduled Final Exam is REQUIRED!**

GRADING RANGE:

94	-	100	A	73	-	75	C
90	-	93	A-	70	-	72	C-
86	-	89	B+	66	-	69	D+
83	-	85	B	63	-	65	D
80	-	82	B-	60	-	62	D-
76	-	79	C+	0	-	59	F

ATTENDANCE:
Regular class attendance is expected.

ACADEMIC HONESTY POLICY:
Academic honesty, mutual respect, being on time for class, giving full attention to class work is expected in this course. **Any form of cheating will not be tolerated**. If a student is caught cheating or plagiarizing, an appropriate punishment will be administered, ranging from a failing grade on the specific project/homework/quiz/exam to failure of the course. Academic misconduct is defined in Thomas College Course Catalog, Pg. 47. Excerpts from same are as follows:

> **Plagiarizing.** According to the 2009 *MLA Handbook*, "to *plagiarize* means to 'to commit literary theft' and to 'present as new and original an idea or product derived from an existing source' (Merriam-Webster's Collegiate Dictionary [11th ed.; 2003; print]) (52). The *Handbook* continues, "Plagiarism involves two kinds of wrongs, using another person's ideas, information, or expressions without acknowledging that person's work constitutes intellectual theft. Passing off another person's idea's, information, or expressions as your own to get a better grade or gain some other advantage constitutes fraud." (52)….
>
> **Aiding and abetting plagiarism.** Permitting others to use your work.
>
> **Recycling your own work.** Submitting, without permission, in one course work originally done for another.
>
> **Cheating.** Copying from another student's exam paper; permitting others to copy one's work; bringing unauthorized material to exams; accepting or giving unauthorized assistance on coursework and/or assignments.

STUDENTS WITH DISABILITIES
Students requiring academic accommodations to be successful in this course are encouraged to arrange a meeting with the Academic Dean as soon as possible. At that meeting, strategies for success will be discussed, as well as any accommodations required for the classroom, which will then be communicated with the instructor.

USE OF ELECTRONIC DEVICES IN THE CLASSROOM:
It is expected that all personal electronic devices (e.g., cell/smart phones, PDA's, MP3 players, cameras, tablets, IPADS, etc.) will be **turned off and packed away during class sessions**. Students may not post ANY material from classes on the internet or other personal networking sites without the explicit, written permission of the instructor and all other class participants. The use of technology in class will be strictly limited to appropriate, course relevant use. All other uses (including, but not limited to, texting, emailing, instant messaging, social networking, and listening to IPods) are prohibited unless specifically approved by the course instructor. Penalties for violation of this policy will result in removal from the class and repeated violations may result in failure of the course. **Personal electronic devices will be collected at the start of class on the day of an exam and will be returned upon receipt of completed exam.**

TENTATIVE COURSE OUTLINE:

	Chapters Covered	**Week (Tentative)**
	Review of Basic Concepts	1-3
1.	Equations and Inequalities	4-5
	First Exam	6
2.	Graphs and Functions	7-8
3.	Polynomial and Rational Functions	9-10
	Second Exam	11
4.	Inverse, Exponential and Log Functions	12-13
9.	Linear Systems and Matrices	14
	Third Exam	15
	Final Exam	

Students must have both their Thomas computer and Moodle accounts established the first week of class. Please contact IT services to do so if that has not already been established.

ADD/DROP DATES
September 4th is the last day to add a course and October 29th is the last day to drop a course for Fall semester 2018.