

MWF 10:30 am to 12:55 pm in TEC 0032

- Instructor: Michael McCabe
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- Office: BIC 3436 B
- Office Hours: TR 0900 to 1000 and MWF 1045 to 1145
 - If these hour do not work please email me three times and days that work.
- Course Description: Students develop the foundational mathematical skills necessary for general education mathematics courses (Math 1218 and Math 1220). Content features collaborative project-based and technology-enabled group work including modeling, problem solving, critical thinking, data analysis, algebra fundamentals, and both verbal and written communication of mathematical ideas.
- Repeatable for credit: No
- Pre-Enrollment Criteria:
- Prerequisite: MATH 0461 Pre-Algebra with a grade of "C" or better, or equivalent or MATH 0481 Foundations for College Mathematics I with a grade of "C" or better, or equivalent or a qualifying score on the math placement exam

COURSE OBJECTIVES

Upon successful completion of the course the student should be able to do the following:

- (1) Apply characteristics of functions in mathematical modeling and real world problem solving
- (2) Perform operations on algebraic expressions and functions
- (3) Apply algebraic operations in modeling and real world problem solving
- (4) Solve equations and inequalities in the context of modeling and real world problem solving
- (5) Translate mathematical information symbolically, visually, numerically, and verbally
- (6) Estimate answers to mathematical problems in order to determine reasonableness, identify alternatives, and select optimal results
- (7) Recognize the value and limitations of mathematical models
- (8) Use mathematically correct vocabulary and symbolism in problem statements, problem solving methods, and solution interpretations

COURSE TOPIC OUTLINE

All topics, other than optional topics (indicated by *), will be covered.

Topics must include the following:

- (1) Functions including graphical analysis
- (2) Operations on algebraic expressions including factoring
- (3) Modeling with linear functions and nonlinear functions

Topics must also include at least two of the following:

- (1) Modeling with systems of equations
- (2) Modeling using probability and statistics
- (3) Modeling using geometry and right triangle trigonometry
- (4) Modeling using proportional reasoning

REQUIRED MATERIAL

- Almy, Kathleen, and Heather Foes. Math Lit: a Pathway to College Mathematics. 2nd ed., Pearson, 2017.
- MyMathLab Access Code

SCHEDULE

	Monday	Tuesday	Wednesday	Thursday	Friday	Important Date
1		1.3		1.4/1.5		02/14/20 Project 1
2		1.6/1.7		1.8		02/20/20 Exam 1
3		1.9/1.10		1.11/1.12		03/22/20 Project 2
4		1.12/1.13		1.15		03/24/20 Exam 2
5		1.16		Exam 1 / 2.2		04/26/20 Project 3
6		2.3		2.4/2.5		04/28/20 Exam 3
7		2.6/2.7		2.9/2.10		05/11/20 Final
8		2.11/2.12		2.13		
9		2.14		2.15/2.16		
10		Exam 2		3.3/3.4		
11	spring break					
12		3.5/3.6		3.7		
13		3.8		3.9/3.10		
14		3.11/3.13		3.15		
15		Exam 3		4.2/4.3		
16		4.4				

- **The final exam will be a 2 hour exam over everything and will take place on Tuesday, May 12th, 2020 starting at 10:30 am.**

METHOD OF EVALUATION

- Exam Assessment (20% overall)
 - There will be 3, 50 minute, exams.
 - All show your work (no multiple choice).
 - Make-ups allowed if notified before the time of examination.
- 3 Projects (15% overall)
 - There will be 3 projects on: College Tuition, Predicting Child's Height, and Deciding to Run.
 - They will be submitted through Blackboard, and there will be an essay portion.
- Online Homework Assessment (10% overall)
 - Will be done in MyMathLab
 - * With unlimited attempts.
 - There will be at least 2 dropped assignments
 - * Thus, no make-ups.
 - Each week there will be an assignment due.
 - **Each assignment one must achieve at least 70% grade in order to have more than one attempt on the quiz.**
- Online Quiz Assessment (15% overall)
 - Will be done in MyMathLab
 - * With 5 attempts
 - There will be at least 2 dropped quizzes.
 - * Thus, no make-ups.
 - In order to have **multiple attempts** (2 or more), one **must achieve a 70% or higher** on the attached homework assignment.
- Turn-in Assessment (10% overall)
 - End-of-section homework will be due the following class day.
 - The turn-in assignment is located at the end of each section and is also located in MML under Homework Masters.
 - It is encouraged to keep copies of your turn-in work for studying.
 - The turn-in assignment must be stapled, do not expect a staple to be provided.
 - The turn-in assignment must be completed on the provided work sheet, not on a blank sheet of paper.
- Class participation and Attendance (5% / 5% overall)
 - Class participation will be determined by performance in Learning Catalytic's.
 - Attendance will be tracked by collecting Name tents at the beginning of class.
 - * Missing 5 days of class with result in 0 points for attendance.
 - * Missing 1 day is equivalent to leaving early twice or tardy twice or not having your book twice.
- Final Exam (20% overall)
 - Cumulative
- A: 90% - 100%
- B: 80% - 90%
- C: 70% - 80%
- D: 60% - 70%

- F: <60%

ACADEMIC HONESTY

As members of the College of DuPage community, we share a commitment to the highest standards of learning and ethical behavior. The College and its faculty strive to build meaningful and productive relationships with our students. The expectation of honesty and effort is the foundation of that relationship. Academic dishonesty damages the learning partnership built between student and faculty and is considered a serious breach of the principles of learning and growth. Violations of the Code of Academic Conduct will be dealt with appropriately and may become part of a student's educational record. Please don't risk it!

For further information about the expectations, please review the Code of Academic Conduct found at the following website: https://www.cod.edu/student_life/dean_of_students/pdf/code_of_academic_conduct.pdf.

ACADEMIC CALENDAR

- Monday, January 20 - Classes Begin
- Monday, January 20 - Legal Holiday (M.L. King's Birthday) (No Classes)
- Spring Break: March 30th to April 5th (No Classes).
- **Friday, April 10 Last Day to Withdraw - 16-Week**
- Finals Week: May 9th to the 15th.
- Friday, December 13 End

WITHDRAWAL POLICY

Withdrawal from a Class. The final day for a student to withdraw from any course will be equal to 75% of the time for the respective academic session (see the Registration Calendar http://www.cod.edu/registration/pdf/reg_calendar.pdf) through myACCESS <https://myaccess.cod.edu> or in person at the Registration office, Student Services Center (SSC), Room 2221.

Administrative Withdrawal. After the deadline, students will be required to appeal for late withdrawal and provide appropriate documentation to the Student Registration Services Office for all requests. Students who are granted approval to withdraw by petition will not be eligible for refunds of tuition or fees and will receive a 'W' grade on their transcript. Appeals must be submitted prior to the designated final exam period for 16-week classes and before the last class meeting for all other session classes.