MATH 0465 - VCM06 - COURSE SYLLABUS **COLLEGE OF DUPAGE**

1. Instructor

- Instructor: Michael McCabe
- Email: mccabem85@cod.edu
- Phone: 630 942 2152 (I can hear voicemails away from my desk.)
- Office: BIC 3436 B (Not Applicable for the fall session)
- Office Hours: MWF 10:30am to 11:30am and 1:30pm to 2:30pm. Office hours will take place in Blackboard Collaborate linked in the Blackboard course title Office Hours.

2. Course Description

- Course Title: General Education Mathematics
- Course Number: 1218
- Credit Hours: 3, Clinical Hours: 0, Lecture Hours: 3, Lab Hours: 0
- Course description to appear in catalog: 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: N/A
- Prerequisite: MATH 0461 Pre-Algebra with a grade of "C" or better, or equivalent. or
- Prerequisite: MATH 0481 Foundations for College Mathematics I with a grade of "C" or better, or equivalent. or
- Prerequisite: a qualifying score on the math placement exam

3. Course Objectives

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

At the conclusion of this course a student should be able to:

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

4. Topical Outline

Topics must include the following:

(a) Functions including graphical analysis

(b) Operations on algebraic expressions including factoring

(c) Modeling with linear functions and nonlinear functions

Topics must also include at least two of the following:

(a) Modeling with systems of equations
(b) Modeling using probability and statistics
(c) Modeling using geometry and right triangle trigonometry
(d) Modeling using proportional reasoning

5. Method of Evaluation

(a) Exam [Weight 20%]
- General Information:
  (a) 3 Exams.
  (b) Each exam will be a take-home exam and will need to be completed in 24 hours after released.
  (c) All work must be shown.
  (d) It is suggest all work be cited from the text, there is no formal method of citing.
- Submission Procedure:
  - Each exam will be opened at a certain time of day and will begin the 24 hour clock to complete.
  - The minimum expectation is to print the exam, show all work on the printed exam, scan the worked-out exam, and finally upload the exam to Blackboard through the designated Blackboard assignment link.
  - The file format required for submission is "exam.#.pdf". No other file format will be accepted. Any file submission not readable during grading will be subject to penalty.
  - Photo file format will not be accepted, and email submission will not be accepted.
  - Students are responsible for knowing how to scan and upload files correctly prior to the day of the exam.

(b) Project [Weight 20%]
- General Information:
  - 3 Projects each worth Project 1 (250 points), Project 2 (500 points), and Project 3 (750 points).
  - Each project will have several days to complete.
  - It is encouraged to use what ever resources necessary to complete the project.
- Submission Procedure:
  - Each project will be opened weeks before due date.
  - All work will be submitted through Blackboard Test.
  - Equation editor(s) will be required for some problems.
  - Spreadsheets may also be used for submissions.

(c) My Math Lab (MML) [Weight 20%]
  (a) Each section will be associated with a MML homework set.
  (b) There will be unlimited attempts.
  (c) Each homework set will be worth 10 points.
  (d) There will be at least 3 dropped assignments. Thus, there will be no make-ups nor extensions.
  (e) At the end of the semester I will not be reopening all the assignments.

(d) Turn-In's [Weight %10]
  (a) General Information:
    - Each Turn-In will be 1 point.
    - There will be at least 5 dropped assignments. Thus, there will be no make-ups nor extensions.
    - Turn-In assignments will be due several times throughout the week.
  (b) Submission Procedure:

- The minimum expectation is to print the Turn-In, show all work on the printed Turn-In, scan the worked-out Turn-In, and finally upload the Turn-In to Blackboard through the designated Blackboard assignment link.
- The file format required for submission is Turn-In.#.pdf. No other file format will be accepted. Any file submission not readable during grading will be subject to penalty.
- Photo file format will not be accepted, and email submission will not be accepted.
- Students are responsible for knowing how to scan and upload files correctly prior to the due date.

(e) Attendance/Participation [Weight 10%]

(a) Attendance will be tracked through Blackboard Collaborate Ultra.

(b) Students Will be considered **late** if not logged in within 5 minutes of the start of class.

(c) Students will be considered **absence** if not logged in within 20 minutes of the start of class.

(d) I understand connection issues are possible, but in order to get attendance credit all students most be present for 60% of the class.

(e) There will be 3 drops at the end of the semester.

(f) **Learning Catalytics** will also be calculated into the Attendance/Participation. It is very important to answer questions through this polling service. If you feel there isn't enough time to answer questions you are required to notify me prior to the next class meeting.

(g) Ask questions during lecture.

(f) Final Exam [Weight 20%]

- General Information:
  (a) Comprehensive
  (b) Will be a take-home exam and will need to be completed in 24 hours after released.
  (c) All work must be shown.
  (d) It is suggest all work be cited from the text, there is no formal method of citing.
- Submission Procedure:
  - Will be opened at a certain time of day and will begin the 24 hour clock to complete.
  - The minimum expectation is to print the exam, show all work on the printed exam, scan the worked-out exam, and finally upload the exam to Blackboard through the designated Blackboard assignment link.
  - The file format required for submission is "final.exam.pdf". No other file format will be accepted. Any file submission not readable during grading will be subject to penalty.
  - Photo file format will not be accepted, and email submission will not be accepted.
  - Students are responsible for knowing how to scan and upload files correctly prior to the day of the exam.

Grading Scale:

- A: 90% to 100%
- B: 80% to 89%
- C: 70% to 79%
- D: 60% to 69%
- F: 59% or less.

6. Academic Calendar

- August 24 Class begins
- September 7 Labor Day (No Class)
- October 16 In-Service Day (No Class)
- November 3 Election Day (No Class)
- November 14 Last Day to Withdraw
- November 25 - 29 Thanksgiving Recess

- December 12 - 18 Final Evaluations/Culminating Activities
- December 18 End of 16-Week

7. Required Text

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

8. Tentative Schedule

For the most up to date schedule look to Blackboard calendar. Important tentative dates are:

- Exam 1 (week 6)
- Project 1 (week 7)
- Exam 2 (week 11)
- Project 2 (week 12)
- Exam 3 (week 15)
- Project 3 (week 16)
- Final Exam (finals week)

9. 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:Code of Academic Conduct.

10. 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) through MyAccess 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.
- Coronavirus Information. Stay up to date with information provided by the college about alternative withdrawal policies.

11. Access and Accommodations

The College of DuPage is committed to the equitable access of educational opportunities for students with disabilities in accordance with The Americans with Disabilities Act, As Amended and Section 504 of the Rehabilitation Act of 1973. Any student who feels they may need an accommodation on the basis of an illness, injury, medical condition, or disability should contact the Center for Access and Accommodations to determine eligibility for accommodations and to obtain an official Letter of Accommodation. The Center for Access and Accommodations can be reached via email at access@cod.edu. Students may also initiate a request for services by going to www.cod.edu/access and clicking on the green box labeled "complete form to request

accommodations." If you are already registered with the Center for Access and Accommodations, please email me your Letter of Accommodation as soon as possible. Please DO NOT send any private health documentation or Doctor's notes to me.