SYLLABUS
Applied Calculus II - MA 120, Section 1
Spring 2019

Professor: Dr. Mark Demers   **Lectures:**   Bannow 340
Office: 108 Bannow   Mondays & Thursdays, 11:00 am – 12:15 pm
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Office Hours: Mondays, 5:00 – 6:00 p.m.
Wednesdays, 12:00 – 1:00 p.m. & 5:00 – 6:00 p.m.

Required Text: Calculus with Applications, 11th edition, by Lial, Greenwell and Ritchey. Published by
Pearson, 2016. ISBN-13 978-0321-97942-1

Class Website: http://faculty.fairfield.edu/mdemers/MA120
This is a valuable resource that contains the weekly homework assignments, outlines of
class lectures (if you miss class), and important information regarding upcoming quizzes
and exams.

MyMathLab: http://www.mymathlab.com
This website contains the online homework system we will use this semester.
You will need the following Course ID to link to this class: **demers93406**

Outline of Topics

Week	Sections	Material Covered
1	4.1 – 4.5	Review of derivative rules
2	6.4, 6.5	Implicit differentiation and related rates
3	6.6, 13.1	Linear approximation; Review of trigonometric functions
4	13.2, 7.1, 7.2	Derivatives of trigonometric functions; Review of antiderivatives
5	13.3	Antiderivatives of trig functions; FIRST EXAM
6	7.3, 7.4, 7.5	Review of area and the definite integral; areas between curves
7	7.6, 8.1	Numerical integration; integration by parts
8	8.2, 8.4	Volume and average value; Improper integrals
9		Spring Break
10	12.1, 12.2	Introduction to infinite sequences and applications
11		SECOND EXAM
12	12.3, 12.4	Taylor Polynomials; Infinite series
13	12.5	Taylor Series
14	12.6, 12.7	Newton's Method; L'Hospital's Rule
15		Review

This outline is only a broad indication of topics to be covered and may fluctuate depending on our pace during the
term. The numbered sections refer to the required text for the class. There may be additional handouts during the
course of the term that contain required material.

Attendance: In my experience, attendance is an important part of doing well in a course. Although no one is
required to participate during class, you are encouraged to do so and I hope you will feel comfortable participating
throughout the course of the term. Attendance for all quizzes and exams is mandatory and make-ups will be given
only for absences due to documented illness or other valid reasons. You must notify me **in advance** if you plan to
miss a quiz or exam for an official university event.

Homework: Homework will be completed online through the MyMathLab website run by the textbook publisher,
Pearson. Homework will be assigned each week and will usually be due each Thursday at the start of class.

Homework assignments will also be posted on the class website with a link to MyMathLab. These assignments provide essential preparation for quizzes and exams and you are strongly encouraged to complete all assignments on time.

Homework is graded and you may attempt each problem on the assignment as often as you like until you get it right – so you have the possibility to earn 100% on every homework assignment just by redoing the problems (the numbers change a bit each time you ask for another problem.) To receive 100%, you must complete all problems in the assignment before the posted due date (typically 11:00 a.m. on a Thursday). After that time, you may no longer submit answers for that homework assignment.

You are invited to attend office hours and ask questions about the material in order to complete the assignments. You are also encouraged to form study groups and work with other students in the class if you find that helpful. But when completing the assignment online, the work must be your own.

Quizzes: There will be short quizzes every other week on the previous week's material. The quiz problems will closely resemble the assigned homework problems. Quizzes will always be announced and will be given during the first 15 minutes of class, typically on a Thursday. There will be no make-up quizzes offered unless you miss class for an official university event (notify me in advance!), but your lowest quiz grade will be dropped at the end of the semester.

Exams: There will be three in-class exams given during the semester and a Final Exam given at the end of the semester. Exam questions are intended to be comprehensive and may not closely resemble homework problems: for example, ideas from several sections in your text may be combined in a single exam question. The scheduled dates for the exams are as follows.

Exam 1: Thursday, February 21
Exam 2: Thursday, April 4
Final Exam: Monday, May 6, 8:00 – 11:00 a.m.

I will notify you as soon as possible if there are any changes in the exam schedule. Important announcements will also be posted on the course website.

Grading: Your final grade will be determined by the following weighted average.

Exams: 40% (cumulative; 20% each exam)
Quizzes: 15% (after dropping lowest grade)
Homework: 15% (after dropping lowest grade)
Final Exam: 30%

Students with Disabilities: If you require special accommodations during lectures or exams due to a documented disability, please contact the Office of Accessibility, Academic & Career Development Center, (203) 254-4081, or email acdc@fairfield.edu. You should also notify me within two weeks of the start of the semester of any arrangements you make regarding accommodations.

Honor Code: You are required at all times to abide by Fairfield University's Honor Code, which can be found in the course catalog. Although you are encouraged to work together and assist one another on homework assignments, the final product you submit must be your own work and reflect your understanding of the material. It cannot be copied from or dictated by anyone else. Quizzes and exams must be completed entirely on your own without communication with anyone else.

Common Courtesy: I expect you to show one another respect at all times, whether participating in class or discussing math outside of class. The use of electronic devices to talk, text, IM, surf the web or check email distracts me, you and your classmates and should be kept outside of class. I will ask students engaging in such activities to leave the class. Please turn off your phones before class so they do not ring during class.