MONTGOMERY COLLEGE
Department of Mathematics
Rockville Campus

<u>**GENERAL COURSE INFORMATION**</u>

Title: Multivariable Calculus –   – MATH 280
Semester: Spring 2018
Course Duration:
Class Time/Days:

<u>**INSTRUCTOR INFORMATION**</u>

Name: Dr. Jason Lee
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Office hours:

<u>**COURSE DESCRIPTION**</u>

Calculus of vector functions; analytic geometry of space; partial differentiation; multiple integrals; classical theorems of Green, Gauss, and Stokes. **(Note that for computation of tuition, this course is equivalent to five semester hours.)**

<u>**PREREQUISITE**</u>

A grade of C or better is required in Calculus 2, MATH 182. Additionally, students need mathematical maturity, a strong work ethic and a deep understanding of algebra, analytic geometry, and trigonometry.

<u>**TEXTBOOK / WEBASSIGN**</u>

J. Stewart, ***Multivariable Calculus, Concepts and Contexts, 3rd Edition***, Brooks/Cole-Cengage Publishing Co., 2005. ***Supplementary Resources for Book:*** http://www.stewartcalculus.com/media/3_home.php

All Homework will be done on WebAssign. To log in, go to http://webassign.net – I will provide you a login and password on the first day of class. You will need to purchase a login code for use on WebAssign.

<u>**SECTIONS COVERED**</u>

The course will cover sections 9.1-9.7, 10.1-10.5, 11.1-11.8, 12.1-12.9, 13.1-13.9 of the textbook, along with a few optional topics. That is the approximate order that we'll cover the sections.

<u>**COURSE OUTCOMES**</u>

https://cms.montgomerycollege.edu/EDU/Department2.aspx?id=34892

<u>**REQUIRED SUPPLIES**</u>

A graphing calculator is required. The ***TI-83, TI-83 plus, or TI-84 plus*** is recommended. Other calculators may be adequate, but the student cannot expect help from the instructor on the use of these calculators. (No symbol manipulation calculators, such as the TI-89 or TI-92, will be permitted on exams or quizzes.) Students just buying for this course should buy a TI-84 plus, TI-83, or TI-83 plus. You'll need to bring pencil and paper to class.

COMMUNICATION

The **official** means of communication will be through your **Montgomery College email, Blackboard,** and **Google Hangouts**. Please **check your email, Blackboard, and Google Hangouts account daily** for course announcements, invoices, important admission/registration information, waitlist status etc. All emails you send must be from your MC email address.

QUIZZES / EXAMS

There will be **four exams** in addition to a **cumulative final exam**. On most non-exam days, there will be a quiz. Quizzes are given promptly at the beginning of class. Exams use the entire class period. On quizzes and exams, you may use your calculator, MATLAB, and a single three inch by five inch index card with notes handwritten by you, writing allowed on both sides.

COURSE FORMAT

Course lectures will be posted to YouTube (http://youtube.com/hellomathfans), which you will be expected to view prior to coming to class. Links to the YouTube video are provided on Blackboard. **The primary method of content delivery will be these videos.** In-class time will be spent working on homework in groups. **This is not an online class – you are expected to come to class every day.** Watching the videos is not optional. Our time in class will be primarily spent working on problems in groups. You may be asked to go to the board to work out problems. I will not spend much time at the board myself lecturing.

GRADING WEIGHTS

Exams	(4)	40%
Quizzes	(best 35 of 38)	21%
Video Notes		3.8%
WebAssign Homework		10.2%
MATLAB		5%
Final Exam		20%
Total		**100%**

GRADING POLICY

Weighted Average	Grade
90 to 100	A
80 to 89.9	B
70 to 79.9	C
60 to 69.9	D
Below 60	F

HOMEWORK

A crucial component of learning mathematics is doing problems. We will be spending a lot of time in class working on problems on WebAssign. You'll certainly be spending time outside of class finishing homework assignments – you should not expect to finish homework in class. All graded homework is on WebAssign. Any written homework assignments are optional, and will not be collected.

There will be periodic MATLAB assignments, which will be turned in electronically on Blackboard.

MAKE-UP POLICY

It is expected that students take all quizzes/exams when scheduled. Once a quiz/exam has been given, its contents are assumed to be public knowledge. **There are NO make-ups for quizzes/exams**. **Neither quizzes nor exams will be administered early or late.** If you miss an exam, the 0% score will be replaced by 85% of your final exam score. For example, if you miss an exam & you earn 100% on the final exam, the 0% will be replaced with an 85%. If you do not miss any exams & if you have missed fewer than 3 classes, your lowest exam score will be replaced by your final exam score if your final exam score is higher. **No exam scores are dropped.** Your 30 highest quiz scores count – the remaining are dropped. No homework or inquiries are dropped.

COMPUTER/CELL PHONE POLICY
CELL PHONES ARE NOT TO BE SEEN/USED IN CLASS, and must be left at the front of the room for the duration of the class. A student who has a cell phone visible during an exam or a quiz will get a zero on the exam or quiz. You will lose points from your grade every time that you are using a cell phone or have one out. If you must make a phone call or send/receive a text message, please step outside of the room. You may use a computer or a tablet in class, but only for approved purposes related to class.

ATTENDANCE POLICY
Students that miss a total of four or more classes may be dropped. It is each student's responsibility to make sure that they have been counted present on the attendance sheet. Being absent includes coming late, leaving early, or being gone during class. Also, it is your responsibility to find out what you missed. DO NOT email or call me to find out what you missed!

SCHEDULING QUIZZES AND EXAMS
The dates of all quizzes and exams will be posted to Blackboard, usually with a minimum of one week's notice. You are responsible for knowing all dates of quizzes and exams.

FINAL EXAM
Our Final Exam will be on Wednesday, 9 May 2018, 1015a-1215p. The Final Exam is comprehensive.

IMPORTANT REMARKS
- For any assignment, all work must be shown. If the work is incorrect or missing, no credit will be given.
- Students are responsible for signing in on the attendance sheet.
- Any communication between students during an exam or quiz is will be interpreted as cheating and the students will receive a zero on the exam or quiz.
- **The instructor reserves the right to make changes in the syllabus, scheduling of topics, quizzes & exams.**

ACKERMAN LEARNING CENTER
This is where students can get *tutoring* and other resources: Rockville Campus, Science West First Floor, 240-567-5200. **Hours** are available on their website: http://www.montgomerycollege.edu/Departments/mathscrv/

MISC. SYLLABUS TERMS
Additional terms of the syllabus can be found at http://cms.montgomerycollege.edu/mcsyllabus/