MONTGOMERY COLLEGE
DEPARTMENT OF MATHEMATICS
ROCKVILLE CAMPUS
MATH 150 Elementary Applied Calculus I
CRN 30831
Spring 2020

Professor: Dr. Fred Katiraie (**fred.katiraie@montgomerycollege.edu**)   **Office:** Science Center Room 354P
Classroom: Science West Room 302   **Phone:** (240) 567-8060
Class Hours: Tuesday and Thursday 11:00 AM – 12:50 PM
Office Hours held in SC 354P: Tuesday and Thursday 12:30 PM – 1:00 PM, and 5:00 PM – 6:00 PM, and
Wednesday Review Session for Math150 4:00 – 6:00 PM (in Room SW103)
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Optional Review Session for My MATH150 Students:
    Wednesday Review Session for Math150 4:00 – 6:00 PM (in Room SW103)

Website: http://faculty.montgomerycollege.edu/fkatira1/

MATH150 Elementary Applied Calculus I

Course Description: A general calculus course primarily for business students. Topics include algebraic, exponential, and logarithmic functions and their graphs, an intuitive approach to limits, differentiation, integration, and functions of several variables. Major emphasis is on applications in business, economics, and the life sciences. The course is not open for credit to students who have a grade of C or better in MA 181 or equivalent.

Prerequisite: A grade of C or better in MATH 096 / MATH050, appropriate score on mathematics assessment test, or consent of department. Assessment levels: EN 101/101A, RD 120.

Text: Calculus for Business, Economics, Life Sciences, and Social Sciences (13th Edition, published 2015) which includes a **MathXL** online access code **(REQUIRED).** You may purchase a package that includes the textbook and the MathXL access code, or you may elect to purchase the MathXL access code ONLY. Your MathXL access will include most parts of the text e-book. See more details below:

Required Computer Access: Most of your homework will be done on the computer with MathXL. A package including both the printed physical textbook and the online access is available at the campus bookstore.

IT IS UP TO YOU whether you purchase the physical textbook along with MathXL access code and the e-book, or MathXL Alone, without the physical textbook. But Purchasing the Math XL access code is required.

Access to the online materials is available at http://www.pearsonmylabandmastering.com/northamerica/mathxl/

You will need the following **mathxl access key** to enroll in this section of MathXL online homework.
The course name is: Dr. Katiraie Math 150 Tuesday and Thursday Class Spring 2020

The Course ID for your course is: XL3I-R189-4020-1U42

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MathXL (required): MathXL is a required on-line homework system for this course.

The MathXL Temporary code (two weeks of access) for Spring 2020 is:

PSXLTR-BOREE-FLORY-SPRUE-IBIZA-SITES

MATH 150 fulfills a General Education Program Mathematics foundation requirement. Montgomery College's General Education Program is designed to ensure that students have the skills, knowledge and attitudes to carry them successfully through their work and personal lives. This course provides multiple opportunities to develop two or more of the following competencies: written and oral communication, scientific and quantitative reasoning, critical analysis and reasoning, technological competency, and information literacy. For more information, please see the general education website

Calculator:
You will be allowed to use calculators, particularly with decimals, percents, and problem solving. This will enable you to concentrate on the process and not get bogged down in the calculations. I would suggest that you purchase a **graphing calculator.** You will be able to use the graphing calculators in your upcoming Mathematics courses. In general, calculators **TI-83**, **TI-83** Plus, or **TI-84** Plus are preferred; however, TI 85, TI 86, **TI-89, TI-92 are not acceptable**. TI calculators may be borrowed from the math / science center on a daily basis. **No one will be allowed to share a calculator during quizzes and exams.**

The math/Science Center offers graphing calculator workshops at the beginning of each semester. Check the Center's website and/or hallway posters for announcements of these workshops: http://www.montgomerycollege.edu/Departments/mathscrv/calculators.html

Attendance:
You are expected to attend every class, and have your textbook, paper & pencil and calculator with you. Observe that attendance will be considered in your performance in the class. If you miss a class you are responsible for getting the notes and assignments in on time. *I expect you to arrive to class on time.*
Please be aware that you may be dropped if you accumulate absences whose sum is equivalent to more than one week worth of classes. As a result a student may be dropped before or after the college official deadline date for "withdrawals with a W".

Integrative Writing Assignment:
Students will write a brief essay describing various interpretations of the derivative. In doing so, the student will make Connections to Discipline and Integrated Communication.

Homework Binder:
There are some bad work habits which may hinder one's performance in a course such as this one. As an example, sloppy handwriting often causes careless mistakes that lead to unnecessary confusion and lack of confidence in one's work. In order to ensure that your work for this course is organized, you will be required to have a 3-ring binder (or a folder of your choice) which contains separate sections for:
• Homework assignments
• Quizzes, tests and handouts (such as syllabus)
• Class notes (unless you prefer to keep these in a separate notebook).
The homework assignments should be written neatly and should include only the relevant calculations, not messy scratch work. You should also include the statement of each problem. (For word problems, you can briefly summarize the statement using symbols, if necessary) Keep the various components of the binder file in separate sections (Do not mix your quizzes in with your homework) I will periodically look at your binder and may grade selected problems. (I especially will be interested in seeing your binder when you are not performing well on quizzes and tests.)

Grading Policy: Your final grade will be based on the following:

Quizzes	100
Exam I	100
Exam II	100
Exam III	100
Exam IV	100
Final Exam	200
Homework in Math XL	75
Integrative Writing Assignment	25
Excellent Attendance & Participation	Drops Lowest Quiz
Excellent MSC / Review Sessions	Drops Another Lowest Quiz
Excellent HW (Binder and MathXL)	Drops Another Lowest Quiz

Grading Scale
720 – 800 = A
640 – 719 = B
560 - 639 = C
480– 559 = D
479 and Below = F

* There will be no make-ups on Quizzes or Exams.
The following applies to students who miss at most 2 classes in the entire semester
If you do better on the final exam than one of your unit test, this lowest test grade will be replaced by your final exam percentage.

<u>Please be advised that on the day of exam/quiz</u>:   *I will not provide calculators/pencils.*
You will not be permitted to leave the room.
You may not use or even hold a cell phone.
You will not be allowed to share calculators

Dropping: Check with MyMC Class Schedule for YOUR Specific Deadlines to Drop with W for Spring 2017

<u>E-mail Communication Statement</u>: MC student e-mail is an official means of communication for Montgomery College. Students are responsible for information and announcements sent via MC e-mail, and it is expected that students check their student e-mail regularly. When e-mailing **Dr. Katiraie, please use your MC e-mail account, with proper grammar and punctuation. On the subject indicate your name, last name, class and time of your class.**

<u>Ackerman Learning Center:</u> Free tutoring and other resources are available.
- **Rockville Campus**, Science Center West, Room SW 100, 240-567-5200,
   Hours: Mon. – Thurs. 8am – 8pm, Fri. 8am – 4pm, Sat. 10am – 3pm
   http://cms.montgomerycollege.edu/MathScienceCenter/

- MATH CLUB MEETINGS
Where? <u>Science Center 361</u>
When? <u>Fridays</u>
Time? <u>3:00 - 5:00 pm</u>
Why? <u>To Help You Succeed</u>

<u>Accommodations for Students with Disabilities Statement:</u> Disability Support Services (240-567-5058)
Any student who may need an accommodation due to a disability, please make an appointment to see me during my office hour. A letter from Disability Support Services (CB122) authorizing your accommodations will be needed. Any student who may need assistance in the event of an emergency evacuation must identify to the Disability Support Services Office; guidelines for emergency evacuations for individuals with disabilities are found at:
www.montgomerycollege.edu/dss/evacprocedures.htm

<u>Academic Regulations & Student Code of Conduct</u>
All MC students are expected to follow "Academic Regulations" & "Student Code of Conduct" as described in the MC <u>Student Handbook</u>. These regulations and guidelines can be found at:
www.montgomerycollege.edu/departments/academicevp/Student_PandP.htm

<u>Inclement Weather</u>
If inclement weather forces the College or any campus or College facility to suspend classes or close, public service announcements will be provided to local radio and television stations as early as possible. You may also call MC at 240-567-5000 or check the college website **www.montgomerycollege.edu** to verify MC school closings. Any exams planned on days classes are suspended will be administered at the first class meeting once classes resume. Note that the Montgomery County Public Schools (MCPS) and Montgomery College do not follow the same school closing procedures.

Final Exam:
The final exam is comprehensive over all material. Failure to take the final will result in an F for the course
The final examination for our class will be on
<u>Thursday May 14th 12:30 PM – 2:30 PM</u>

Failure to take the final will result in an F for the course
The instructor reserves the right to amend this syllabus as appropriate throughout the semester. Students will be notified of any such changes.

Tentative Schedule

NO.	DATE	SEC.	HOMEWORK ASSIGNMENTS
1	January 28	1.1 1.2	Please go to mathxl.com and do your homework
2	**January 30**	1.3 1.4 **Quiz 1**	Please go to mathxl.com and do your homework
3	February 4	1.5 1.6	Please go to mathxl.com and do your homework
4	**February 6**	2.1 2.2 **Quiz 2**	Please go to mathxl.com and do your homework
5	February 11	Review	Review for Test 1
6	**February 13**	**Test 1**	**Test 1 will cover chapter 1 and Sections 2.1 and 2.2**
7	February 18	2.3 2.4	Please go to mathxl.com and do your homework
8	**February 20**	**3.1** **Quiz 3**	Please go to mathxl.com and do your homework
9	February 25	3.2 3.3	Please go to mathxl.com and do your homework
10	**February 27**	3.4 **Quiz 4**	Please go to mathxl.com and do your homework
11	March 3	Review	Please go to mathxl.com and do your homework
12	March 5	3.5 3.6	Please go to mathxl.com and do your homework
13	**March 10th**	Review and **Quiz 5**	Please go to mathxl.com and do your homework
14	**March 12th**	**Test II**	**Test II will be on Sections 2.3—3.6 Plus 25 Points on Materials From Your Test I**
☺ ☺	March 16th – 22nd	☺☺☺☺☺☺☺ ☺	*Spring Break* *No Classes*
15	March 24	4.2 4.3 (4.4 Optional)	Please go to mathxl.com and do your homework
16	**March 26**	4.5 **Quiz 6**	Please go to mathxl.com and do your homework
17	March 31	4.6	Please go to mathxl.com and do your homework
18	**April 2**	Review **Quiz 7**	Please go to mathxl.com and do your homework
19	April 7	Review	Review for Test III
20	**April 9**	**Test III**	**Test III will be on Sections 4.2—4.7 Plus 25 Points on Materials From Your Test II**
21	April 14	5.1 5.2	Please go to mathxl.com and do your homework
22	**April 16**	**5.3, 5.4, 5.5** **Quiz 8**	Please go to mathxl.com and do your homework
23	April 21	*6.1* *6.2*	Please go to mathxl.com and do your homework
24	**April 23**	Review **Quiz 9**	Please go to mathxl.com and do your homework
25	April 28	7.1 7.2	Please go to mathxl.com and do your homework
26	**April 30**	**Test IV**	**Test IV will be on Sections 5.1 -- 5.5, 6.1-- 6.2 , 7.1 -- 7.2 , Plus 25 Points on Materials From Your Test III**
27	May 5	Review	Review for Final Exam
28	May 7	Review	Review for Final Exam
	May 14	**Final Exam**	**Our Final Exam is Scheduled for Thursday May 14th 12:30 PM – 2:30 PM**

THE INSTRUCTOR RESERVES THE RIGHT TO AMEND THIS SYLLABUS AS APPROPRIATE THROUGHOUT THE SEMESTER. STUDENTS WILL BE NOTIFIED OF ANY SUCH CHANGES.