CAS MA 122 SYLLABUS

Calculus for the Life and Social Sciences II

July 3-August 10, Mon./Tues./Thurs. 6-8:30 pm

Location: PHO 202

Instructor:
Jingwei Ma
majw@bu.edu
Course Website: http://math.bu.edu/people/majw/MA122_2017/MA122_2017summer.html
Office : MCS B44, 111 Cummington Street
Office Hours : Mon./Tues./Thurs. 3pm - 4pm or by appointment

Course Description:
This course is a continuation of CAS MA 121. It will cover a brief review of univariate calculus, calculus of the elementary transcendental functions, elementary differential equations, elementary multivariate calculus, as well as applications to exponential growth, optimization, equilibrium, and dynamic modeling problems.
Prerequisite(s): CAS MA 121 or CAS MA 123.

Text(s):

- *Calculus: for Business, Economics, Life Sciences, and Social Sciences*, 13$^{\text{rd}}$ Edition, written by Barnett, Ziegler and Byleen.

- *Additional Calculus Topics*, 13$^{\text{rd}}$ Edition, written by Barnett, Ziegler and Byleen.

We will begin with a brief review of Chapter 2-6 in the first book, and review specific topics as needed as we go along. The main material of the course is in Chapter 7-8 of the first book, Chapter 1-2 of the second book, and additional application topics referring to the lecture notes.

Homework:
Homework for practice and for credit will be assigned after every lecture, collected weekly on Thursday lectures and returned on Monday lectures.
You may discuss homework problems with classmates and the tutor in the Tutoring room MCS B 24 (this is also a good place to meet with classmates). However, (AND THIS IS VERY IMPORTANT), when you write up your final copy of your homework, you must work alone. This will guarantee that you understand the solution–it is very easy to tell when a solution has been copied, so be sure to write up you solutions (showing YOUR work) independently, once you know how to do the problem. If you get help from other, please list who they work with on their paper, including the tutoring room tutor.

Lowest homework score will be dropped. **NO LATE HW WILL BE ACCEPTED FOR ANY REASON!**

Quiz:
There will be a weekly 10-minute quiz on every Monday lectures. Lowest quiz score will be dropped. **NO MAKE-UP QUIZ WILL BE ACCEPTED FOR ANY REASON!**

Exam:
There will be an in-class midterm and an in-class final for this course. Each will take 2 hours. Midterm exam will be hold on Jul. 20th, and final exam will be hold on Aug. 10th. **NO** calculators, textbooks, notebooks, or phones during the exam, but "One Page of Notes" is allowed to take. Make-up exams will be offered if you have emergency, and tell me in advance. Note that there will be one problem numbered as "Last problem" for extra credits in the both midterm and final exam. However, it is particularly difficult, so only attempt it if you have completed the other problems as best you can.

Grade Policies:

	Quiz	15%
	Homework	15%
Either	Midterm Exam	30%
	Final Exam	40%
Or	Final Exam	100%

Note that final exam will be harder than midterm exam.

Communications:
Communications are very important!! If you have any questions or suggestions about this course, please feel free to email me or visit me during office hours. Homework, quizzes or each-time lecture outlines will be updated on course website.

University Policy:
If you observe a work restricted religious holiday during the term, please let me know immediately and arrangements will be made in accordance with University Policy.

Academic Conduct:
Students are responsible to read and understand the provisions of the CAS Academic Conduct Code. Cheating is absolutely not allowed, otherwise, you will be referred to University Academic Standards Committee for disciplinary.

MileStones:
The daily coverage will be updated on the website as we go forward depending on progress.

Date	Milestones
Jul. 3 Mon	Quiz 1.
Jul. 4 Thu	Holiday, classes suspended.
Jul. 6 Thu	Q&A for Quiz 1. Collect Homework 1.
Jul. 7 Fri	Substitute schedule of classes (Tuesday schedule).
Jul. 10 Mon	**Last day to drop without a 'W' grade**. Quiz 2 and Q&A for Quiz 2 and HW1.
Jul. 11 Tue	
Jul. 13 Thu	Collect Homework 2.
Jul. 17 Mon	Quiz 3 and Q&A for Quiz 3 and HW 2.
Jul. 18 Tue	Midterm Review.
Jul. 20 Thu	Collect Homework 3 & **Midterm Exam**.
Jul. 24 Mon	Quiz 4 and Q&A for Quiz 4, HW3 and Midterm exam.
Jul. 25 Tue	Wednesday, July 26, 2017 is **Last day to drop with a 'W' grade**.
Jul. 27 Thu	Collect Homework 4.
Jul. 31 Mon	Quiz 5 and Q&A for Quiz 5 and HW 4.
Aug. 1 Tue	
Aug. 3 Thu	
Aug. 7 Mon	Collect Homework 5; Quiz 6 and Q&A for Quiz 6.
Aug. 8 Tue	Q&A for HW 5; Final review.
Aug. 10 Thu	**Final Exam**.