MATH 12 **Business Calculus** **Winter 23**
Email: kapurrenuka@fhda.edu **Instructor: Renuka Kapur**

Class Meeting Time: NONE (Asynchronous Class)

Contact me: Text, Email or ZOOM OFFICE HOURS. Set up a Zoom meeting when cannot make it to office hours!

Tutoring Services: Do not wait to get extra help. Contact me or tutoring to get help!

Prerequisite: Math 31, 31H, 41 or 41H.

Course Description: Introduction to limits, differentiation and integration of single variable functions; differentiation of multivariate functions; applications: tangents, extrema, area, others; various business applications.

E-Book/ Textbook: Applied Calculus for Managerial, Life, and Social Science, 10th edition, by Soo T. Tan

"To Do List"

1. FREE:
Download the Remind App on your mobile.
Send a text to: 81010.
Text this message: @7ab7kk
Once the message is sent, you will get help with how to join REMIND
This texting application will allow you to contact me or any others in the class. It is free and your phone number will remain private. I will disable it at the end of the quarter.

2. **Calculator:**
A basic scientific calculator is required for this class such as Texas Instruments TI30XIIS Scientific Calculator. TI-83 Plus/TI-84 Plus calculator recommended. This can be a physical or an online App. You can download the App at https://www.desmos.com/scientific.
You can also go to the Canvas page for the course and look at the Module titled, "Technology Links

3.**WebAssign**:
Homework, Quizzes, Tests and Final exam are taken on WebAssign, which is an internet based software.
Scroll down the Canvas homepage and click on:
CLICK ON: INSTRUCTIONS FOR WEBASSIGN REGISTRATION.
Follow the instructions on that page.
(Another way: CLICK ON Modules on the left side of the Canvas homepage)

Cost for WebAssign with the E-Book is about $111.

Drop Policy: It is the student's responsibility to drop the course. If you miss taking tests and assignments, you may be dropped.

GRADES:

Homework (16%): Plan to log in to WebAssign daily. All homework must be submitted by 11:59 PM on the due date**.** If you have a homework problem you are not able to complete, you can send me your questions on WebAssign by clicking on "Ask my Instructor". **The lowest 5 homework scores will be dropped.** No extensions allowed, since the 5 lowest scores are dropped

Quizzes (17%): There will be 6 quizzes via WebAssign assigned intermittently throughout the term to test your skills on the concepts we are covering in class. Once you start the quiz, you will have 1 hour to complete it. You will get two attempts on the numerical question and one attempt on the multiple-choice question. **NO make-up quiz** will be given. To compensate for this, **I will drop your lowest quiz score**.

Exams (50%): There will be four exams during the quarter on WebAssign and Canvas. Each exam will have two parts: an online portion through WebAssign and a handwritten portion which you will upload to Canvas (Due 24 hours after the online Exam is due). Once you start the online portion of the exam, you will have 2 hours to complete it. You will get two attempts on the numerical question and one attempt on the multiple-choice question. These exams will cover the materials covered in the lectures, online, and in the book. **NO makeup exam will not be given**. To compensate for this, **I will drop your lowest exam score**.

Final Examination (17%): If you do not take the final exam, you **WILL NOT** receive a passing grade. **There Final Exam is comprehensive – It will cover all the material covered in the quarter.**

The course material is subject to change at the instructor's discretion

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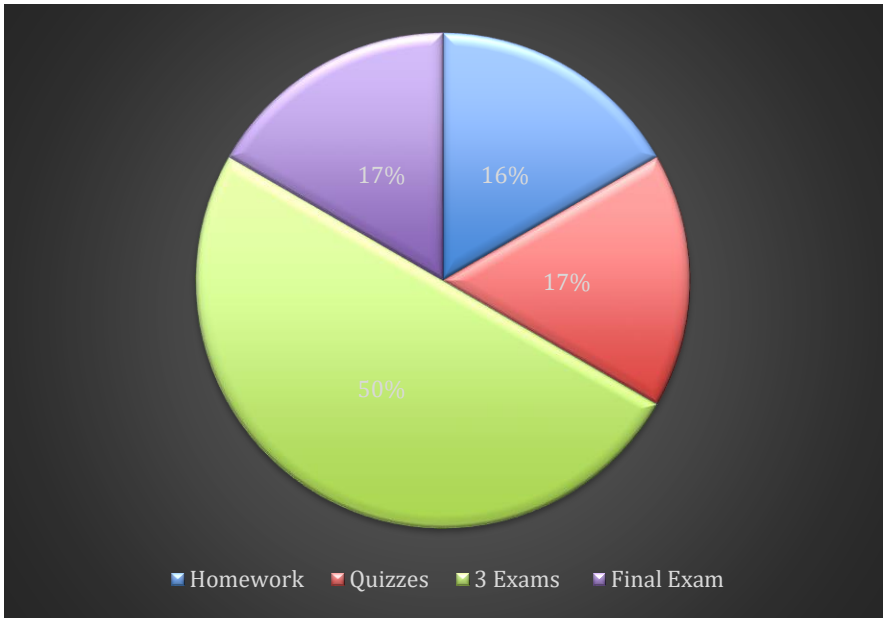
Grade	Percent
A+	$score \geq 97.5\%$
A	$92.5\% \leq score < 97.5\%$
A-	$90\% \leq score < 92.5\%$
B+	$87.5\% \leq score < 90\%$
B	$82.5\% \leq score < 87.5\%$
B-	$80\% \leq score < 82.5\%$
C+	$72.5\% \leq score < 80\%$
C	$65\% \leq score < 72.5\%$
D+	$60\% \leq score < 65\%$
D	$55\% \leq score < 60\%$
D-	$50\% \leq score < 55\%$
F	$score < 50\%$



Tentative Schedule for Math 12 *(Subject to change)*

Week 1	**Sections 2.4, 2.5, 2.6**
Week 2	**Sections 3.1, 3.2, 3.3** **Quiz 1 (2.4, 2.5)**
Week 3	**Sections 3.4, 3.5, 3.6** **Quiz 2 (2.6, 3.1, 3.2)**
Week 4	**Sections 3.7, 4.1,** **Exam 1: Sections 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4 (Due Jan 31st)**
Week 5	**Sections 4.2, 4.3, 4.4** **Quiz 3 (3.5, 3.6, 3.7)**
Week 6	**Section 4.5, 5.4** **Quiz 4 (4.1, 4.2, 4.3)**
Week 7	**Sections 5.5, 5.6** **Exam 2: Sections 3.5, 3.6, 3.7, 4.1, 4.2, 4.3, 4.4 (Due Feb 21st)**
Week 8	**Sections 6.1, 6.2, 6.3** **Quiz 5 (5.4, 5.5, 5.6)**
Week 9	**Sections 6.4, 6.5** **Exam 3: Section 4.5, 5.4, 5.5, 5.6, 6.1, 6.2, 6.3 (Due Mar 7tt)**
Week 10	**Sections 6.6, 6.7** **Quiz 6 (6.4. 6.5)**
Week 11	**Sections 7.1, 7.4** **Exam 4: 6.1 6.2, 6.3, 6.4, 6.5, 6.6, 6.7 (Due Mar 21st)**
Week 12	**Final Exam: Comprehensive** **Due by THURSDAY, March 30th**

Student Learning Outcome(s):

*Use correct notation and mathematical precision in the evaluation and interpretation of derivatives and integrals.
*Evaluate, solve, interpret and communicate business and social science applications using appropriate differentiation and integration methodologies.

Office Hours:

T,TH	06:00 PM	07:15 PM	Zoom