MATH-12.061 Syllabus Fall 2019

Meets:	Tue/Thu 6:30PM-8:45PM. Room: De Anza S16
Instructor:	Prof. Vadim von Brzeski. Email: vonbrzeskivadim@deanza.edu
Office Hours:	Tuesdays 5:30PM – 6:30PM (before class). Location: De Anza E37
Course description:	Introduction to limits, differentiation, and integration of single variable functions. Differentiation of multivariate functions. Applications in business, economics, and social science.
Pre-requisites:	MATH 11 or MATH 41. **Proficiency with algebra**.
Materials:	**Book (REQUIRED)**: *Calculus and Its Applications. Bittinger, Ellenbogen, Surgent*, **11th edition**. MyMathLab access **not** required. **Calculator (recommended)**: graphing calculator. A TI-84 is recommended (or TI-83+, TI-83). ***NOTE: calculators will not be needed nor allowed on exams.***
Method of Instruction / Philosophy:	You don't learn math by reading or listening to math; you learn math by **doing** math. Thus, each session will be organized as follows: 60 minutes of lecture interspersed with problem solving/practice; 10 minute break; 65 min of lecture interspersed with problem solving practice. However, that is not enough – **you will need to spend at least 2-3 hours per week solving problems on your own**.
Homework:	There will be 6 homework assignments, but they **will not be collected nor graded**. They are examples of problems I consider important to understand and know how to do. Very similar problem will appear on quizzes and exams.
Exams:	There will be **6 quizzes**. Each quiz will be 20-30 minutes in length, **at the start of class**. Each quiz will cover the material on the previous week's homework. The quizzes will be closed book, no notes. The quiz dates are show in the Calendar below. The lowest quiz score will be dropped (i.e. only the highest 5 of the 6 count). There will be **2 midterm exams**. The exam dates are shown in the Calendar. The midterm exams will be 1 hour long, **at the start of class**. The **final exam** will be on **Thursday December 12, 6.15 pm – 8:15pm, in S16.** The final exam will be **cumulative**: 50% of it will cover material from the midterms, and 50% of it will cover material covered after midterm 2. **NO MAKE-UP EXAMS WILL BE GIVEN**. The score on the final exam will replace one lowest score on the midterm exams (i.e. one lowest midterm score will be dropped and the final will count twice). For example, if you miss *one* midterm, your score on the final will replace that 0 on the midterm.

Grading Breakdown:

	Quantity	Points Each	Total Points	%
Quizzes	5	20	100	20%
Midterms	2	100	200	40%
Final	1	200	200	40%
TOTAL			500	100%

Grading Scale: Your grade in the class will be determined by the total number of points you earn on quizzes, midterms, and the final. **There will be no "rounding up" – don't ask**.

If total points….		… then grade:
>=	485	A+
>=	465	A
>=	450	A-
>=	435	B+
>=	415	B
>=	400	B-
>=	385	C+
>=	350	C
>=	300	D
<	300	F

Expectations of Students:

1. **Academic dishonesty will not be tolerated**. If a student is found cheating on an exam or a homework item, or violating other codes of academic integrity, he or she will receive a 0 score for the item in question. Repeated instances of cheating may lead to failing the course and further action. See the section on Academic Integrity in your current schedule of classes.
2. **Attendance**: A student who stops coming to class and does not drop the class will get the grade that their work earns. **It is the student's responsibility to drop the class.** You are *expected* to attend all classes.
3. **Showing your work**:
    a. You need to **show your work on HW and exams** in order to get full credit.
    b. Your work needs to be **legible** – if I can't decipher your handwriting, you will lose points. Neatness will also help correctness.
4. **Class conduct**: Any student who is disruptive may be asked to leave class. A student who refuses to leave the room may be dropped from the class and reported for further action. **Students are expected to silence and put away mobile phone, tablets, etc**, and should refrain from eating during class.

Important Registrar Dates:

LAST DAY TO ADD: **Oct 5**
LAST DAY TO **DROP** (full refund and no record of grade): **Oct 6**
LAST DAY TO REQUEST PASS/NO-PASS: **Oct 18**
LAST DAY TO DROP WITH A "W": **Nov 15**

Students with Disabilities:

For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see the contacts below:

- Disability Support Services (DSS): Student Services Building (408)864-8753
- Educational Diagnostic Center (EDC): Learning Center West 110; (408)864-8839. Special Education Division: (408)864-8407; deanza.edu/specialed

Calendar

(The schedule below is *tentative and subject to change*, but I will do my best to stick to it.)

Week of (Mon):		Tuesday			Thursday	
23-Sep		Intro	Chapter R		1.1	1.2
30-Sep		**Quiz 1**	1.3		1.4	1.5
7-Oct		**Quiz 2**	1.6		1.7	1.8
14-Oct		2.1	2.2		**Exam 1 : Ch 1**	2.3
21-Oct		2.4	2.5		**Quiz 3**	2.6
28-Oct		2.7	3.1		3.2	3.3
4-Nov		**Quiz 4**	3.4		3.5	4.1
11-Nov		**Exam 2 : Ch 2 - 3**	4.2		4.3	4.4
18-Nov		**Quiz 5**	4.5		4.6	5.1
25-Nov		5.2	5.3		No Class	
2-Dec		**Quiz 6**	5.4 - 5.5		6.1	6.2
9-Dec					**Final Exam (Dec 12, 6:15PM)**	

Final Words of Advice:

1. Attend all lectures. This is a fast paced class and we will usually cover two sections of a chapter in any given lecture.
2. Do all the homework problems. Quiz problems will be randomly selected from the past week's HW.
3. Try your best to not fall behind. **Sprint at the start, cruise to the finish**.
4. Do not go into an exam cold. Do not try to wing it. Study for exams by doing problems, not just by reading or glancing over the book. **Check your work!** Never turn in an exam early if you have not checked your work.
5. **Be neat** when writing math. Neatness can save you! Do not be lazy and try to do all calculations on the same line, rather take the time (and extra paper) to re-write the equations if necessary.
6. Ask questions if you do not understand something in class. I am more than happy to stop and repeat and explain.

Come to office hours if you're lost. See #2. If you can't make my OH times, email me to setup an appointment.

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.