MATH 221   CALCULUS & ANALYTIC GEOMETRY – I   FALL 2018
MW 11 - 11:50 am, TR 10:35 – 11:50 am, Room 207

INSTRUCTOR: Dr. Kavita Bhatia   **OFFICE:** Room 207B

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OFFICE HOURS: MW 10 am – 11 am and by appointment.

PREREQUISITES: A grade of C or better in MAT 110 and MAT 113 or equivalent placement based on the placement test score.

REQUIRED MATERIALS:
- **Textbook:** *Calculus, Early Transcendentals,* 8th Edition by Stewart. We will be covering chapters 2-5 and parts of Chapter 6. **Please bring your textbook to class every day. No e-books or cell phones.**
- **Webassign access code** to do your homework. An access code can be purchased from the Campus Bookstore. There are two versions of the access code, one semester and two semester. If you are planning to take Math 222 next semester it is cheaper to get the two semester version. Along with the access code you will need a Class key to enroll you into the correct section. The Class key for this course is **uwc 5707 9398**. A graphing calculator. Preferred calculator is the TI-84. Calculators like the TI-89 that have a built in CAS will not be allowed. **Cell phone calculators will not be allowed on exams and quizzes.**

CLASSROOM ETIQUETTE:
- All cellular phone, beepers, and electronic devices that could disrupt class should be in sleep mode or off while class is in session.
- If you plan to attend class, be there at the beginning, be engaged and stay until the end.

GOALS & OBJECTIVES: To obtain an understanding of the ideas underlying differential and integral calculus. Specifically the goals are to
- understand the idea of limits
- compute limits algebraically, graphically and numerically
- understand the notion of continuity and how it relates to limits
- understand the notion of the derivative
- understand the relation between the derivative and the tangent line
- calculate derivatives by using formulas
- apply the knowledge of the derivative to real world problems
- understand what definite integrals are
- understand the relation between the derivative and the integral
- compute definite integrals graphically and algebraically
- solve applied problems using integration

GRADING POLICY: Your course grade will be computed as follows:

Quizzes	10%
Homework	15%
3 Exams (17% each)	51%
Final Exam (Comprehensive)	24%
Total	100%

ATTENDANCE: You are expected to attend all classes. In the event of an absence you are responsible for making up the material that you missed. You will not receive any attendance points if you miss more than five minutes of class. Bonus points will be given for attendance as follows: 0-1absence: 1.0 %   2-3 absences: 0.5%

GRADING SCALE: Grades will be assigned according to the scale below:

92%--100%	A	76%--80%	C+
89%--92%	A-	72%--76%	C
86%--89%	B+	67%--72%	C-
83%--86%	B	55%--67%	D
80%--83%	B-	0%-55%	F

HOMEWORK: All homework will be done using Webassign. Be prepared to spend 1-2 hours on each day's assignment. Assignments will be due on Tuesdays by 11:59 pm. However in order to follow the material being presented in class it is imperative that you work on your homework throughout the week as the material is being presented. *New!* You can earn 20% bonus points by doing your homework early, 48 hours prior to the due date. So if you submit your homework that is due on Tuesday by the Sunday before, you can get the bonus points.

You need to register at the WebAssign website at http://www.webassign.net. In order to register, you will be required to provide your personal access code and your class code. The class code for our section is **uwc 5707 9398**

QUIZZES: There will be a quiz on most Thursday's. There will be **NO** make up quizzes. The quiz with the lowest score will be dropped.

EXAMS: There will be 3 exams during the course of the semester. Make up exams will be given only in the case of a *verifiable emergency*. We will be covering chapters 1 through 5 and parts of chapter 6. Exam dates will be announced at least a week in advance. The final exam is **comprehensive**. Tentative days for in class midterms and the final exam are listed below:

> Exam 1: October 4
> Exam 2: November 1
> Exam 3: December 11
> Final(cumulative): December 19, 10;30 am – 12:30 pm

ACCOMMODATION OF RELIGIOUS BELIEFS: Any student who cannot be present for a scheduled exam due to a religious observance will be provided with an alternative way of fulfilling that course requirement, provided the student notifies me ahead of time.

ACADEMIC MISCONDUCT: Academic integrity and honesty are central to the mission of this institution. All cases of academic misconduct will be treated according to the procedures laid out in UWS 14. UWS 14 allows for disciplinary sanctions that range from an oral reprimand to suspension or expulsion from the University. You can obtain a copy of the academic misconduct policy through the Student Services office.

This is a challenging course and requires serious effort on your part. I am available to help you whenever you need any help. Please do not wait to get help if you are having trouble. The only way to learn mathematics is by doing it. **So work hard and do not fall behind.**

Do not worry about your difficulties in mathematics; I can assure you that mine are still greater.

Albert Einstein