SYLLABUS FOR MATH 1C, ADVANCED CALCULUS, WINTER 2015

Math-001C−61, CRN: 01238

Instructor: Professor Wyatt Howard

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Class Hours: Mondays and Wednesdays from $6:30$P.M.-$8:45$P.M. in room S54.

Office Hours: Thursdays from $1:00$P.M.-$2:30$P.M. in Room E37.

Textbook: *Calculus Early Transcendentals*, 7th Ed., by J. Stewart (white cover with a blue integral sign on the front). We will plan on covering Chapters $10-13$ in the textbook. The class does **not** require Webassign.

Grading:
• **Homework:** Homework will be assigned after almost every class. I will not collect all of your homework and grade each assignment. However, on quiz and exam days you need to bring **all** of your homeworks with you to class. I will collect 1 assignment on quiz days and 2 on exam days. Before you take the quiz or exam I will call one of these assignments at random and you will turn them in with your quiz or exam. This will count for 1 question on your quiz and 2 questions on your exam. I will not accept late homeworks. If you turn the wrong homework assignment, then you will receive a zero for that assignment. It is your responsibility to make sure that you are organized and turn in the correct homework assignment. The homework will be graded on a scale of $1-5$ where 5 is a perfect score. I will be primarily grading the homework on effort and to give you feedback.

• **Quizzes:** There will be a quiz almost every week based on the homework problems. I do **not** give make up quizzes **unless** you ask me for an exception before you miss the quiz with a valid reason. If you miss a quiz, then you will receive a zero for that quiz. I will also give you the opportunity to retake your quiz in my office hours one week from the day that the quiz is handed back. However, you will do the entire quiz on the blackboard in front of me during office hours. This is meant to give you personalized feedback on your work and help prepare you for the exam.

• **Tests:** There will be a total of 4 exams in the class: 3 midterms and 1 final. I do **not** give make up exams **unless** you ask me for an exception before you miss the exam with a valid reason. If you miss an exam without a valid reason, then you will receive a zero for that exam. In the even this occurs, you will be permitted to replace the zero you received on one midterm exam by your final exam grade on a percentage equivalent basis. You can use **scientific calculator** for both the quizzes and exams. You are **not** allowed to use a graphing calculator. The final exam will be cumulative.

Tentative Dates for Midterms: Wednesday January 28th for Midterm 1, Wednesday February 11th for Midterm 2, and Wednesday March 4th for Midterm 3.
Final Exam: The date of the final exam is on Wednesday March 25th from $6:15P.M.-8:15P.M.$ **The date of the final exam is set in stone** and will not be changed.

Quizzes 10%
Midterm 1 20%
Midterm 2 20%
Midterm 3 20%
Final 30%

• **Grade Breakdown:**
$90-100\% = $ A.
$80-89\% = $ B.
$70-79\% = $ C.
$60-69\% = $ D.
below $60\% = $ F.

This grading scale is not set entirely in stone. I may curve the class at the very end of the course. It depends on how the entire class performs, but the above scale will be a good indication of how you are doing in the course.

Student Learning Outcomes:
• Graphically, analytically, numerically, and verbally analyze infinite sequences and series from the perspective of convergence, using correct notation and mathematical precision.
• Apply infinite sequences and series in approximating functions.
• Synthesize and apply vectors, polar coordinate system and parametric representations in solving problems in analytic geometry, including motion in space.

Course Description: Infinite series. Lines and surfaces in 3 dimensions; vectors in 2 and 3 dimensions. Derivatives and integrals for curves defined by parametric equations or in polar coordinates. Derivatives and integrals of vector functions.

Prerequisites: Completion of Math 1B with a grade of C or better.

Warm-Up Exercises: Warm-up exercises will be given almost every class. This will consist of $1 - 3$ exercises that I will post on the board and have you work on either by yourself or in groups when you enter class. After the first few minutes I will walk around the class to observe how everyone is tackling the exercises and to provide help. These problems are intended to help warm-up your mind for the lecture that day. Please take these seriously.

Blue/Green Books: Each student is required to purchase 4 large blue/green books and turn them in to me during the first two weeks of class. I will talk more about this on the first day of class.

Free Tutoring: The Math Tutoring Center in Room $S4$ offers free tutoring on Mondays-Thursdays from $9 : 00$A.M.-$5 : 30$P.M. I strongly encourage you to utilize this resource. More information can be found here:
http://www.deanza.edu/studentsuccess/mstrc/

Supplemental Resources: I encourage you to poke around the library and web to see what other supplemental resources exist. One great resource is Prof. Roberta Bloom's webpage where she has a number of links to great videos and notes to help you with the topics from this class:
http://faculty.deanza.edu/bloomroberta/stories/storyReader$71

Disability Support Services: If you need to contact the Disability Support Services, then please contact them as soon as possible. More information can be found here:
https://www.deanza.edu/dss/

Academic Integrity: This is pretty straightforward: Do not cheat on quizzes, exams, or directly copy other student's work. It is not worth getting caught and suffering the consequences. For more information about De Anza College's policy on academic integrity:
https://www.deanza.edu/studenthandbook/academic-integrity.html