Math 1C.09 CRN 44478   Calculus   De Anza College
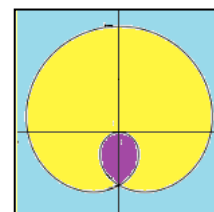## SPRING 2017   11:30 am – 12:20 pm   5 days: MTWThF   Instructor: Roberta Bloom

Welcome to Math 1C Calculus (third quarter)
Parametric curves and polar curves, in 2 dimensional space.
Sequences and series, power series and Taylor series.
Vectors, lines and planes in 3 dimensional space.
Vector valued functions in 3 dimensional space.

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 outline - official list of required topics:
http://ecms.deanza.edu/deptoutlinespublic.html

Instructor and Contact Information
Instructor: Roberta Bloom
Phone: 408-864-8591   **Office:** S33N
email: bloomroberta@deanza.edu
         email is preferred
 Office Hours:
Week 1: Wed. 4/12 & Th. 4/13 1:00 – 2:45 pm
Week 2 & later:
     Monday 1:00 – 2:50 pm
     Tuesday & Wednesday 1:00 – 1:50 pm
Instructor's Websites: https://catalyst.deanza.edu
     http://deanza.edu/faculty/bloomroberta/

Math Prerequisite: Successful completion of Calculus 1B with Grade of C or better; or equivalent placement

Materials & Resources required for this class:
Catalyst : FREE online course management system: https:/catalyst.deanza.edu
        The Catalyst site will be updated regularly with schedule information, assignments, etc.
   • Follow onscreen QUICK LOG IN instructions. After your first log-in, change your password.
   • Only students registered in this class can login. If adding, ADD IMMEDIATELY to get Catalyst access in 24 to 48 hours.
   • Need help logging into Catalyst? Use tech help links on Catalyst site for assistance directly from support staff.
Open Website: http://deanza.edu/faculty/bloomroberta ; **no log-in needed; c**ontains some (not all) course materials that are also in Catalyst; students should use Catalyst for complete resources & up to date information**.**

Textbook: Calculus, Early Transcendental Functions, 8th edition, by Stewart & Larson

Calculator Required: TI-83, TI-83+, or TI-84+: Instructor demonstrates use of only the TI-83 & 84 families of calculators in class; any calculator in the TI-83 or TI-84 families of calculators are OK.
   ▪ TI-89 or other calculators with computer algebra system/ symbolic algebra are absolutely not allowed on quizzes and exams in this class.
   ▪ Note also that it is possible that some exams or quizzes in this class may not permit any calculator at all.
   ▪ If your calculator is lost, stolen, broken, etc. it is your responsibility to obtain a calculator to use. Library Reserve has TI-83/84 calculators for limited loans.
   ▪ Carry spare batteries.
   ▪ Cell phones or other devices can NOT be used as a calculator on a quiz or exam. Students can **NOT** share calculators for quizzes or exams. Instructor can NOT lend her calculator.

Important Dates: *Check online academic calendar to confirm dates; deadlines are enforced by the college*
Last day to Add: Sat. 4/22   Last day to Drop (no W): Sun. 4/23   Last day to Elect P/NP: Fri. 5/5
 Last day to Withdraw (W): Fri. 6/2 (week 8)   Monday 5/29 Holiday – Campus Closed – no classes
Final Exam: Monday 6/26: 11:30am – 1:30pm. This is the college mandated official final exam date/time.

GRADES are based primarily on exams	Points	Approx. %	Minimum percentage needed to *guarantee* the indicated grade		
4 Midterm Exams	400	53-57%			
Final Exam (mandatory)	200	26-29%	A: 93%	A−: 90%	
Quizzes *best 4 of 5 quizzes*	100	13-14%	B+: 87%	B: 83%	B−: 80%
Other: Worksheets / Project / Graded Assignments	0-60	0-8%	C+: 76 %	C: 68%	
Total points	700 -760 points	100%	D: 58%	F: under 58%	

Homework: READ the textbook - REVIEW CLASS notes - DO ASSIGNED PROBLEMS
Assignments will be posted in Catalyst as we are ready for them; Catalyst will be updated frequently to be current.

- Homework provides practice in the skills and concepts we learn in class. Just as practice is important in sports, music or learning a new language, practice is also essential in learning math.   You are expected to do all homework for practice even though homework will not generally be collected and graded.
- Quizzes will be based closely on homework - to motivate students to do the homework and to assess understanding.
- Do homework with the goal of understanding so that you will be able to do similar problems on quizzes and exams. Sometimes you need to struggle though a problem until the concept becomes clear – keep trying!
- If you have trouble with a concept or skill, come to office hours or use the free drop-in tutoring in the Tutorial Center in room S43 to get help. The instructor will answer homework questions in class to the extent that time permits.
- Many students need more practice than the assigned homework problems. If you need practice, do additional problems from the textbook – get help in the tutorial center or get help & check solutions with the instructor during office hours.

Quizzes: 5 quizzes – 25 points each – best 4 quizzes are counted – total 100 points:
Based closely on homework and classwork. Prepare for quizzes by doing homework and paying attention in class.

- Quizzes provide a way for students to assess understanding before an exam and provide a way for the instructor to assess students' understanding and identify areas of difficulty.
- Quizzes help motivate students to pace work on a timely basis instead of cramming before exams.
- **IF YOU ARE ABSENT FOR A QUIZ: No Make-Up Quizzes – No exceptions!!**
  If you are absent for a quiz for ANY reason, you earn a quiz grade of 0.
  One quiz grade of 0 for absence can be dropped as your lowest quiz grade. You are limited to 1 quiz grade drop, so dropping a grade of 0 for quiz absence will mean you can NOT drop some other low quiz grade.

Midterm Exams: 4 exams; 4 @ 100 points each - Bring calculator
- If it improves your course grade, your lowest exam grade is replaced by the percentage equivalent grade from your final exam grade, not to exceed 100%.
- <u>NO MAKE-UP EXAMS</u>. Absence earns a grade of 0. *One such grade of 0 for absence would be the lowest exam score that gets replaced by the percentage equivalent grade (not to exceed 100%) on the final exam; an exam absence would therefore prevent replacement of the grade on another midterm that had a poor grade.*

More about Quizzes & Exams:
- Most quiz/exam questions require you to show work. Grading depends on the quality, clarity, and completeness of work, logical presentation of proofs or explanations, as well as accuracy of calculations and numerical answers.
- Students are expected to attend class daily; therefore if you are absent for a quiz or exam, you must deal with it as per the policies above; these policies are valid even if the instructor changes the date of a quiz/ exam.

Final Exam: 2 hours; 200 points; mandatory .
- Final exam is comprehensive: includes ALL material covered during the quarter.
- No early/late final exams. College policy is that the final exam must be given at the official time as per the college schedule. Plan your schedule now to be available for the final exam on that date and time.
- **Bring a PARSCORE form (red & white #1712 PAR) and your calculator.** The final exam is part multiple choice and partly questions for which you must show your work.
- Final exam papers are not returned to students – to see your final exam paper, visit the instructor during office hours during the first half of Fall Quarter 2017.

Worksheets/Other Assignments/Classwork: 0-60 points of your grade.
There will be a graded assignment at the end of Sequences and Series. There may or may not be other graded items falling into this category during the quarter. These items will be determined during the quarter, if and as needed. If an item is done entirely in class, then it can occur anytime in the quarter, possibly without advance notice. Activities done as part of the day's classwork can not be made up if you are absent. If an activity is to be done at home, then it must be turned in on time, at the beginning of class on its due date.

ESL: If English is a second language, a print (not electronic) English translation dictionary is allowed for exams/quizzes.

Standards of Work: College level work is expected ; work is graded for both accuracy and quality of work.
- **Written work must be complete, neat, legible, organized, and in order.** If you are requested to show your work, then correct answers must be supported by correct work to receive credit; otherwise you may lose credit, even if the final answer is correct. If explanations, proofs, or interpretations are requested, you can lose credit for missing, incomplete or incorrect work.
- **For papers handed in :** Write full name/class time and staple (no folded corners); otherwise they may not be accepted or you may not receive credit; if pages of unstapled work come apart, it is considered incomplete.

RESPECT OTHER STUDENTS' RIGHT TO LEARN in an environment that supports learning.
- **Please save private conversations for before or after class so that all students can hear and pay attention during class.** No private conversations or disruptive behavior in class. Students disrupting class may be asked to leave the classroom or may be dropped from the class.
- **Turn off & put away cell phones & other devices before class:** if your device makes noise or disrupts class, it interferes with other students' ability to learn; the instructor may ask you to leave. If it makes noise during a quiz/exam, points may be deducted from your grade or the instructor may take your paper and ask you to leave.

Be Prepared: Your preparation affects your and other students' ability to learn in class.
Active learning and exploration of ideas are possible when students come to class capable and prepared. Such activities are designed to present material in a more accessible, intuitive manner with hands-on participation. If students are unprepared and therefore not able to participate, an activity may fail as a demonstration of the concept it is designed to illustrate, adversely affecting everybody's opportunity to learn.
Bring required materials daily and keep up to date to be able to participate in a constructive manner to class learning activities.

Academic Integrity: All students are expected to exercise academic integrity throughout the quarter.
- **Cheating and academic dishonesty are not tolerated and can result in a grade of 0 or F for that quiz/exam/assignment or a grade of F for the course and referral to the Dean for academic discipline**.
- Any grade of 0 or F due to cheating or academic dishonesty will not be dropped or replaced.
- Cheating includes, but is not limited to: copying from other students, permitting other students to copy from you, plagiarism, submitting work that is not your own, using notes that do not meet permitted specifications, continuing to write/erase on exam/quiz after the permitted time has ended, changing your exam/quiz paper after it has been graded and then requesting a grading correction. Using any electronic device other than your approved calculator on a quiz or exam may be considered cheating. Sharing a calculator with another student for exam/quiz is considered cheating as work may be saved in memory.

Educational Access:
Please see instructor during office hours to discuss your situation confidentially if you have accommodations; you should see the instructor during the first week of class or as soon as you receive approval for your accommodation.
For information about eligibility, support services or accommodations due to physical or learning disability see:
- Disability Support Service (DSS): www.deanza.edu/dss Location: SCS-141 (408) 864-8753; TTY (408) 864-8748
- Educational Diagnostic Center (EDC): www.deanza.edu/edc Location: LCW 110; (408) 864-8839
- Special Education Division:; www.deanza.edu/specialed (408) 864-8407

ATTENDANCE, DROPS, WITHDRAWALS: Regular attendance is important for success in math class as each day's work builds upon what came before. You are expected to attend all classes, arrive on time & stay for the entire class. Late arrival/early departures are disruptive to the class and to your classmate's learning.
The instructor reserves the right to drop students who miss more than 5 classes during the quarter or who miss any classes in the first two weeks you. However the instructor may or may not perform such a drop/withdrawal.

College Policy: If the student chooses not to complete the class, it is the STUDENT'S RESPONSIBILITY to drop or withdraw by the college deadlines.

If you stop attending but do not withdraw or drop you may fail with a grade of F.   *See deadlines on page 1 of syllabus and on college online academic calendar; the college strictly enforces these deadlines.*

- **Parking is difficult. Plan extra time** to avoid traffic and parking problems to avoid being late.
- **Get classmates' contact information so you can get notes and information.** Instructor will not repeat lectures during class, office hours, or any other time. If you are absent, read the textbook and go to the Tutorial Center first; come to office hours if you still have specific questions.
- **Check Catalyst to find out about due dates or schedule changes.** You are responsible for keeping up and to be aware of any schedule changes even when absent.

COMPUTER AND INTERNET ACCESS, if needed is available in Library West Computer Lab has computers with internet access; located in the **LCW** building downstairs http://www.deanza.edu/library/librarywestcomputer.html (408-864-8761). Math/Science Tutorial Center in Room S43 also has some computers available for student use**.**

CLASS CANCELLATION, EMERGENCY:
- If class is canceled for any reason, or if an emergency causes campus to be closed, assume that any quiz, exam or due date scheduled on that date will be rescheduled to our next class meeting.
- If there are other changes, I will announce them in class after classes resume.
- Check the website and email; if necessary and if possible, I may post a message.

IF YOU NEED HELP IN MATH 1C

- **CHECK THE MATH TUTORIAL CENTER (S-43)** about the availability of **FREE TUTORING** for this class. Drop in tutoring is generally available regularly at the Calculus table. Individual tutoring, if any is available, is very limited at this level of class. Students have a limited amount of FREE access to SMARTTHINKING Online Tutoring in MyPortal, if you absolutely need assistance when our Tutorial Center is not open. The SMARTTHINKING tutoring is limited in amount, so on campus Tutorial Center should be your first resource.

- **SEE THE INSTRUCTOR IN OFFICE HOURS to ask questions about material if you are having difficulty.** The instructor can focus individual time on your problems if you visit with a list of questions prepared in advance.

- **FIND A STUDY PARTNER OR GROUP.** Working with a partner helps both students understand the material better. Find a partner/group EARLY in the quarter and work consistently throughout the quarter. Work with a partner who contributes to your partnership, not somebody who is copying your work and trying to pass on your effort without putting in their own efforts. You can work together on campus in the tutorial center or in a study room in the library.

- **CHECK THE COURSE WEBSITES** for resources that may be helpful.

- **DON'T WAIT UNTIL YOU ARE DROWNING TO GET HELP. Get help as soon as you have difficulty, while there is still time to catch up and improve.** Classes on the quarter system cover material rapidly. If you wait until you are behind, you will have a great deal of difficulty catching up. We cover several distinct topics, making it hard to catch up in an old topic while keeping up with a new topic.

- **DON'T GIVE UP TOO EASILY: At the Math 1C level, math is often not easy**. It takes work and practice to catch on. Educational studies have shown that students actually learn material better when they spend time struggling with it. Spending time with the material helps you learn it in depth and helps you incorporate skills and concepts into long term memory, so you can recall it for exams. If you just look up answers to problems or watch somebody else show you how to do problems, you may find that you can not actually do it by yourself when you need to on an exam

- **ARRANGE YOUR SCHEDULE SO THAT YOU CAN PUT IN THE TIME NECESSARY TO SUCCEED. Be prepared to put in sufficient study time outside class, reading the book and doing many problems, to become proficient.** Each credit unit represents a minimum of 1 hour in class plus 2 hours of study outside of class. Therefore, **expect to put in a <u>minimum</u> of 15 hours of work per each week (5 hours in class, and 10 hours outside of class) and be aware that many students will find they need significantly more time** than 10 hours of study outside class each work for a math course at this level.

- **KNOW YOUR PREREQUISITES.** Material covered in this course assumes that you know various concepts and skills from Precalculus (Math 41, 42, 43) and the previous calculus classes (Math 1A, 1B). If you know and recall those concepts and skills, you will find it easier to focus on new material in Math 1C. To the extent that you do NOT know or recall those concepts and skills, you will have more catching up to do. If you are weak in the prerequisites, plan extra study time and get help in the Tutorial Center to recall and brush up on those skill and concepts.