

<b>Class</b>	Math 1B.01	<b>Instructor</b>	Bert Lo
<b>Lecture</b>	MTWThF 7:30am – 8:20am Room E32		LoBert @ deanza.edu Room S54A
<b>Office Hours</b>	Room S43 (Math Tutorial Center) MTWThF TBA		(408) 864-8268 <a href="http://nebula2.deanza.edu/~bert">http://nebula2.deanza.edu/~bert</a>

**Text** Calculus: Early Transcendental Functions (3<sup>rd</sup> edition)  
Smith & Minton  
McGraw Hill 2007

**Grades** Your grade will be determined by your points scored on group and individual quizzes, 3 midterms and a final exam.

Group Quizzes	90 points
Individual Quizzes	160 points
Midterms (3)	450 points (150 points each)
Final Exam	300 points

A+	at least 970 points	A	930 – 969 points	A–	900 – 929 points
B+	870 – 899 points	B	830 – 869 points	B–	800 – 829 points
C+	770 – 799 points	C	700 – 769 points		
D+	670 – 699 points	D	630 – 669 points	D–	600 – 629 points
F	0 – 599 points				

**Calculator** TI-83 / TI-84 (Plus and Silver Editions allowed)

- Bring your calculator to every lecture, quiz and exam. Always carry a complete set of extra working batteries.
- During lectures and office hours, I can only provide help using the listed calculators. I do not provide any calculator help during quizzes and exams.
- Calculators which do symbolic mathematics (eg. TI-89/92) are not allowed on quizzes or exams. You may use a TI-89 or TI-92 for lectures and homework, but you must have access to and know how to use one of the permitted calculators for quizzes and exams. If you only bring a TI-89 or TI-92 to a test, you may need to complete the test with no calculator.
- You may use a TI-82, TI-85 or TI-86 in place of the listed calculators. However, I do not provide help with those.
- You may not share calculators during quizzes or exams. You may not give another student your calculator if you finish a quiz or exam early.
- I do not lend out my own calculator.

**Attendance** Regular and punctual attendance is important to succeeding in any math class.

- You are expected to attend all classes, arrive on time, and stay for the entire class.
- If you are absent on the first day, or 3 times during the first week, I will drop you from the class, unless you have contacted me beforehand.
- If you miss 2 midterms, or 1 midterm and 2 quizzes, or 4 quizzes, before the end of the 8<sup>th</sup> week, I will withdraw you at the end of the 8<sup>th</sup> week. The only other circumstance under which I will drop or withdraw students myself is disruptive classroom behavior (see below).
- After the 8<sup>th</sup> week of class, I will not drop/withdraw any students. If you do not want to stay beyond the 8<sup>th</sup> week, you must officially withdraw from the class at Admissions and Records before the end of the 8<sup>th</sup> week. If you stop attending and do not officially withdraw, you will receive an F for the course.
- If you are not present during any part of any lecture, you are responsible for getting all lecture notes, homework assignments, handouts and announcements missed. You should arrange to get these from your fellow classmates. (I will not repeat lectures, during office hours or at any other time.)

**Readings** Reading the textbook every day helps you understand what we discuss in class. It also helps clarify the material by giving examples which you can study at your own pace.

- You are expected to read the sections of the textbook every day, before the corresponding lecture. You may not understand everything the first time you read it, but it will help you be more comfortable with the language used in class, and make it easier for you to focus during lecture. It will also give you a chance to prepare your questions to ask in class.
- Some concepts are presented differently in the textbook than in lecture, in ways which you may find more in line with your learning style.



- Some explanations are given in more detail in the textbook than in lecture. I will say things in lecture which I might not write on the board – you will find most of those “missing” notes in the textbook.
- Examples, definitions and theorems from the textbook will appear on tests.
- I believe that reading the textbook daily accounts for about 20% of your learning in a math class. If you do not read the textbook each day, you should not expect to score higher than a C, and you may likely score worse.

## Homework

Doing homework on a daily basis helps you to really understand the material, and makes lectures easier to follow. It allows you to discover and correct your confusions and misunderstandings, so you’ll be less likely to make the same mistakes during quizzes and exams. Homework also develops critical thinking, since **you will be asked to consider problems which are not explicitly discussed in lecture.**

- Homework will be assigned each day but will not be collected or graded. It is your responsibility as college students to check that your answers and solutions are correct, and to correct any mistakes or misunderstandings.
- You will be working in groups of 2 to 4 people on homework (and group quizzes – see below). Everyone should do all the homework separately, then discuss the questions you could not do or had difficulty with. Do not copy from one another. Do not simply split the assignment, then do a fraction of the total work and exchange solutions. (This splitting method usually results in everyone in the group failing from lack of practice.)
- Homework will be assigned for each section. You should do as much of it as possible that day, ask questions about it the next day, and have it completed by the second day after the lecture.
- You should expect to spend at least 10 hours a week outside of class on homework, or an average of at least 2 hours per day. Each day, you should be finishing yesterday’s homework, doing as much of today’s homework as possible, and reading ahead for tomorrow’s lecture.
- Don’t let the homework pile up. Because we operate on the quarter system, we will cover the material fairly quickly. If you fall behind in homework by even just a few days, the lectures will get harder to understand, and the homework will take more and more time the further behind you get. So, a 2 hour homework set might take 6 hours to complete if you are behind by a week, and that still doesn’t include all the other old homework you have to finish up.
- Give each question a solid effort before you start looking at the solution manual or asking someone for help. You will learn much more from trying to solve a problem yourself, than from watching someone else solve it for you. (I can watch other people play basketball all day long, but I will only really improve when I pick up a ball and start shooting baskets myself.) Reread the notes or textbook, or search for similar examples for ideas on how to proceed, then try again. **IF YOU ONLY FOLLOW THE SOLUTIONS IN THE SOLUTION MANUAL, BUT YOU DO NOT LEARN TO SOLVE THE PROBLEMS WITHOUT HELP, YOU WILL PROBABLY FIND THAT YOU HAVE GREAT DIFFICULTY WITH THE PROBLEMS THAT APPEAR ON TESTS.**
- Homework assignments will only represent part of what you are expected to master. If you only do the assigned problems, you might or might not be able to achieve a C in the class. If you want a higher grade, you should do extra problems on your own, in order to get enough practice to truly master the material. Once you know how to do a certain type of problem, do another similar one to make sure you can do it without an example to follow. Then do another one. The more practice problems you do, the more confident you will feel, and the better you will do on the tests.
- I believe that homework accounts for about 50% for your learning in a math class. You should not expect to pass the class if you do not keep up with the homework. If you don’t think you can commit at least 10 hours a week to this class, take it another quarter when you can make that time commitment.

## Quizzes

Quizzes are designed to motivate you to keep up to date on the homework.

- Group quizzes will be completed by the members of your homework group during class. Only the members of your homework group who are present for the group quiz will receive credit.
- Group quizzes may be given on any day, and may last from 2 minutes to 30 minutes. You might not be given advance notice for group quizzes. There are no make-ups for missed group quizzes.
- Individual quizzes will be completed by each person without consulting anyone else.
- Individual quizzes will usually be given the last school day of each week in which there is no midterm or final exam, and may last from 15 minutes to 30 minutes. There are no make-ups for missed individual quizzes.
- There will be at least 180 total points available across all individual quizzes combined. So, you can miss or do very badly on one individual quiz without impact to your grade.
- Quizzes will cover sections up to and including 2 days before the quiz. If you do the homework the day of the lecture, and ask questions the next day, you should be ready for the quizzes.
- All quizzes must be submitted by the time stated. If you do not submit a quiz, midterm or final exam on time, you will receive a 0 for it (even if you are only 1 second late).
- All quizzes will be graded by you. This will help you get a better understanding of your errors, how to improve, and how to present mathematical work correctly. I reserve the right to give you a 0 on a quiz, if it appears that you are being overly generous in grading yourself. If you alter the work on your quiz during grading, that is considered cheating (see Academic Honesty).



<b>Midterms</b>	<p>There will be three midterms during the quarter.</p> <ul style="list-style-type: none"> <li>• Midterm dates will be announced at least 3 days before the corresponding midterm is given.</li> <li>• Midterms will begin promptly when class starts, and will last 50 minutes.</li> <li>• There will be no makeup midterms. No midterm scores will be dropped. I will not reschedule midterms for individuals.</li> <li>• If you take all three midterms, you may average the percentage scores on either one or two of your lower scoring midterms with the final exam percentage score, whichever helps to improve your score for the quarter the most. (In other words, your final exam could be worth 450 points, with your two lowest scoring midterms worth only 75 points each.) This offer is not available if you miss any midterm (except in case of personal emergency or serious illness – with supporting proof), or if you are involved in an incident of academic dishonesty. (FAIR WARNING: final exams are usually harder than midterms.)</li> <li>• The expectations for midterms and quizzes are very different. Because quizzes are given 2 days after material is taught, you may be given more time, because you are just starting to incorporate the subject matter. For midterms, I assume that you have had enough practice with the material, so that you are able to identify and execute solutions within a much shorter timeframe.</li> <li>• To be fully prepared for the midterms (and final exam), consider creating individual strips of paper, each with a different problem, definition or theorem, throw them all in a hat, then draw them out in random order and solve each. This will give you practice in identifying solution techniques without benefit of knowing which section the solution might be found in. Also consider creating and solving your own problems within your homework group.</li> <li>• There will be demerits if your phone, pager, PDA or other noisemaking device makes a distracting noise (subject to my definition) during a midterm or final exam. The demerit will consist of 10% of all points available on the test.</li> </ul>
<b>Final Exam</b>	<p>There will be a comprehensive final exam during the 12<sup>th</sup> week of the quarter.</p> <ul style="list-style-type: none"> <li>• The final exam will last 2 hours.</li> <li>• No arrangements will be made to reschedule the final exam. If you do not take the final exam, you will automatically receive an F for the quarter, regardless of your other scores. Do not plan on traveling out of the area before the final exam. (If a serious personal emergency prevents you from taking the final, you may request an incomplete beforehand.)</li> </ul>
<b>Enrolment</b>	<p>You are responsible for handling all issues related to your enrolment.</p> <ul style="list-style-type: none"> <li>• If you wish to drop/withdraw from the class, do so at Admissions and Records before the end of the 3<sup>rd</sup>/8<sup>th</sup> week.</li> <li>• If you do not pay for your classes on time, you will be dropped from the class. If you then wish to re-enroll, you will be moved to the end of the waiting list.</li> <li>• I will check the class list frequently. If you are not enrolled, I will not grade your work, and I will give your seat away.</li> </ul>
<b>Classroom Behavior</b>	<p>Respectful participation in the classroom learning process is strongly encouraged.</p> <ul style="list-style-type: none"> <li>• Feel free to ask questions to the instructor, and answer questions asked by the instructor. Discussions are to be focused on the class material, concepts, homework and policies. Private conversations can wait until after class. (If you feel you might need a friend to translate during lectures, please talk to me about your situation this week.)</li> <li>• In order to encourage participation, you may earn up to 20 bonus points based on your level of participation, which will be added directly to your score for the quarter. If you are uncomfortable with speaking up in class, you can also earn the bonus points by asking questions during office hours.</li> <li>• Disruptive, distracting or disrespectful behavior in the classroom is unacceptable. You will be asked to leave. If I have to ask you to leave twice (for the same or separate incidents), I will withdraw you from the class.</li> <li>• If you arrive late, quietly take a seat near the door and do not disturb the rest of the class.</li> <li>• Turn off all noisemaking devices before you enter the classroom. This includes phones, PDAs, pagers, and other such items. You may set them to vibrate mode only if you are expecting an urgent call.</li> </ul>
<b>Academic Honesty</b>	<p>Cheating is the act of trying to get credit for work that is not yours. I have a <b><u>zero tolerance</u></b> policy towards cheating.</p> <ul style="list-style-type: none"> <li>• Cheating includes (but is not limited to): copying or submitting work from someone else or from any source (eg. book, website); altering or interfering with grading; using any electronic equipment during quizzes and exams that has not been authorized (eg. cell phones, PDAs, pagers, symbolic calculators); helping another student cheat. For a list of other examples of cheating, please ask me.</li> <li>• NOTE: Working with members of your homework group during a group quiz <b><u>IS NOT</u></b> cheating. Talking to members of other homework groups, or looking at their work, during a group quiz <b><u>IS</u></b> cheating.</li> <li>• My zero tolerance policy towards cheating is: if you are caught cheating, I will give you an F for the course (no second chances). <b><u>NOTE: The F grade I give you will override any attempt you make to drop or withdraw the class.</u></b></li> <li>• In addition, if you are caught cheating, you will be reported to the division dean and Student Development, who may impose much stricter consequences (eg. probation, suspension, expulsion).</li> </ul>



## Help

DeAnza College wants you to succeed, and we will help you as much as possible.

- Get help as soon as possible. Don't wait until you are 2 or 3 weeks behind class before asking for assistance.
- I will do all I can to help you, if you ask for help first. You must take responsibility for seeking assistance – it will not come looking for you.
- Some students begin using the help services during the 1<sup>st</sup> week. To start, learn where the services are located, when they are available, and if you have to follow any special procedures to use them.

There are three primary sources of help if you are having difficulty with the material in this class.

- Homework group: Contact the other members of your homework group by phone or e-mail, or arrange to meet up for more in-depth discussions.
- Office hours: I have office hours every weekday (except holidays), no appointments necessary. If my office hours are not convenient, I can occasionally schedule other times to meet. Just ask.
- Math Tutorial Center: Free tutoring is available on either a drop-in basis, or a regular weekly basis (with a designated tutor). Ask in S43 about schedules and applications. If enough people ask for it, I will work with the tutorial center to try to get a special group tutoring set up for this class.
- Additionally, if you have or think you might have a disability, the Disability Support Services (DSS) and Educational Diagnostic Center (EDC) offer additional services. In addition to helping students with dyslexia, attention deficit disorder and other commonly recognized learning disabilities, these services are also designed to help students whose abilities and efforts significantly exceed their actual achievement. If you feel this describes your situation, please talk to me, so I can put you in touch with the appropriate people.

## General Notes

Some general advice on succeeding in my classes.

- I talk a lot (to explain almost everything I present), and I write a lot (for non-auditory learners). If you spend the entire class taking notes, you may miss out on the verbal clarifications of what is being explained. Consider scheduling with your homework group, so that each day, a different person is responsible for writing down all lecture notes while everyone else in the group pays attention and participates in lecture. After class, make copies of the notes as soon as possible, distribute them to the group, and clarify any details the note taker might have missed.
- When taking tests of any type, first glance quickly at all questions and their point values, so you have a sense of what is expected.
- Try not to spend too much time on a problem in excess of its point allocation. For example, if a quiz lasts 20 minutes and is worth 20 points, each minute is roughly worth 1 point, so you should spend about 15 minutes on a 15 point question. If a midterm lasts 50 minutes and is worth 150 points, each minute is worth roughly 3 points, so you should spend about 5 minutes on a 15 point question. If a final lasts 120 minutes and is worth 300 points, each minute is worth roughly 2½ points, so you should spend about 6 minutes on a 15 point question.
- I do not curve any tests, even if the class median is an F. I have found that when I curve, students actually do worse later on. When I don't curve, the students who are serious about getting A's and B's make adjustments to their study habits and earn those grades outright anyway.
- If you do not start studying regularly during the first week, you should probably consider dropping the class today. If you fail the 1<sup>st</sup> midterm, that score will **NOT** be completely replaced (see **Midterms** section above), and will result in an overall drop of at least ½ grade for the quarter.
- As room scheduling permits, if a test is given at the beginning of class, you may start the moment you enter the classroom, even if it is before the official class start time.
- Things which really annoy me to no end, and which I will address in no uncertain terms:
  - students who cheat – they have no regard for their fellow students' efforts, nor for the time I waste dealing with the disciplinary actions (FAIR WARNING: in order to save time dealing with these issues, I collect evidence throughout the quarter, but only confront students at the end)
  - students who don't read the greensheet, and then ask me something which is clearly spelled out there
  - students who don't hand in their tests when I tell them to, and then whine when I give them a 0 even though it is clearly spelled out in the greensheet
  - students in precalculus and above who don't learn definitions and theorems, even though I stress repeatedly that they will appear on tests
  - students who don't study during the first third of the quarter, fail the 1<sup>st</sup> midterm, and then complain that the midterm is too hard, even when it looks pretty much like their homework
  - students who don't read the book, do their homework and attend class regularly, yet walk into class late, make a spectacle of themselves, and generally act as if the instructor, the material and the rest of the class is beneath them
- Despite the length and language of my greensheet, I'm actually a nice guy to students who are serious about learning and working hard. If that doesn't describe you, you might find me overbearing and obnoxious.

# TENTATIVE SCHEDULE

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
WEEK 1	APR 7  INTRO	8  4.2	9  4.2	10  4.3	11  4.3
WEEK 2	14  4.4	15  4.4	16  4.4 & 4.5	17  4.5	18  4.5
WEEK 3	21  4.6	22  4.6	23  4.7	24  4.7	25 (LAST DAY TO DROP)  4.8
WEEK 4	28  CATCH UP	29  REVIEW	30  <u>MIDTERM 1</u>	MAY 1  5.1	2 (LAST DAY TO FILE P/NP)  5.1
WEEK 5	5  5.2	6  5.2	7  5.2 & 5.3	8  5.3	9  5.3
WEEK 6	12  5.4	13  5.6	14  5.6	15  5.6 & 5.7	PROFESSIONAL RETREAT NO CLASS
WEEK 7	19  5.7	20  CATCH UP	21  REVIEW	22  <u>MIDTERM 2</u>	23  6.2
WEEK 8	MEMORIAL DAY  NO CLASS	27  6.2	28  6.2 & 6.3	29  6.3	30 (LAST DAY TO WITHDRAW)  6.3
WEEK 9	JUN 2  6.4	3  6.4	4  6.5	5  6.6	6  6.6
WEEK 10	9  CATCH UP	10  REVIEW	11  <u>MIDTERM 3</u>	12  Hyperbolic Functions	13  Hyperbolic Functions
WEEK 11	16  7.1	17  7.1 & 7.2	18  7.2	19  7.3	20  7.3
WEEK 12	23  REVIEW	24  FINAL EXAM 7:00am - 9:00am			