

Math 103 (Introduction to Calculus)
Spring 2016
TR 10:30 a.m.-noon, DRL 3W2
University of Pennsylvania

Instructor: Dr. William Simmons, DRL 4C3, wsimmo@sas.upenn.edu.

Office Hours (held in DRL 4C3): Tuesdays, 3:30-5:00 p.m.; Thursdays, 9:00-10:15 a.m.; Others, time permitting, by appointment.

Teaching assistant: Taniel Winner, twin@seas.upenn.edu; office hours (held in DRL 3C17): Mondays and Wednesdays, 10-11 a.m.

Class website and Canvas: The page www.math.upenn.edu/~wsimmo/Math103,IntroductiontoCalculus.html will serve as our main class website. Look there for assignments and other course documents.

We will use the Canvas system (<https://canvas.upenn.edu>) only for announcements and for posting scores. Be sure to check the announcements regularly for changes to assignment due dates or other information.

Textbook and MyMathLab: Thomas' Calculus, Second Custom Edition for the University of Pennsylvania (with MyMathLab access code), Pearson. ISBN 10: 1-269-96229-9 ISBN 13: 978-1-269-96229-2. To come bundled with the access code to MyMathLab (which we will use), the book must be bought in the University bookstore (this same text is used in Math 104 and Math 114). Otherwise, you can purchase the code on the MyMathLab website.

Exam and other important dates:

- Add deadline: Monday, Feb. 1.
- First midterm: Wednesday, Feb. 10, 6-7:30 p.m., location TBA
- Drop deadline: Friday, Feb. 19.
- Second midterm: Wednesday, Mar. 16, 6-7:30 p.m., location TBA.
- Withdrawal deadline: Friday, Mar. 25.
- Last day of classes: Wednesday, April 27.
- Final exam: Thursday, May 5, Noon-2:00 p.m., location TBA.

MyMathLab: You will work practice problems most days before class to help you improve your proficiency with the basic tools. To sign up, go to <http://www.pearsonmylabandmastering.com/northamerica/mymathlab/> and use the following information:

- Course Name: Math 103 Sp 16 Introduction to Calculus

- Course ID: simmons16018
- Your personal access code

Be sure to do this soon, as your first assignment is due by the second day of class (Tuesday, January 19).

Assignments: Assignments are generally due at the beginning of class on Thursdays; any changes will be announced through Canvas. *Late work will not be accepted*, so please talk to me ahead of time if you face a legitimate extenuating circumstance. Your lowest homework score will be dropped.

Quizzes: Most weeks during recitation there will be a quiz. Quizzes will be short (15 minutes at most), cover recent material, and are intended to be straightforward if you are keeping up. You may not use electronic devices, but you may use one 8.5×11 formula sheet (both sides). Your lowest quiz score will be dropped.

Exams: There are two evening midterm exams, on Wednesday 2/10 and 3/16. The exams will be 90 minutes long (from 6:00 p.m.-7:30 p.m., location TBA). If you have a strictly unresolvable scheduling conflict, let me know no later than January 31. The final exam is Thursday, May 5, from noon-2:00 p.m.; the location is TBA. As with quizzes, you may use one 8.5×11 formula sheet (both sides) but no electronic devices.

Midterm redos: You may redo up to two problems from each midterm for half-credit (i.e., half the points back that you missed). The guidelines are as follows:

1. Without looking at the posted solutions, rework the problems you lost credit on. See if you can figure them out now.
2. If necessary, check your work against the posted solutions. If you still had some mistakes, study the answers and then put them away. Repeat the process until you can correctly solve the problems. Bring your written solutions with you. (If you don't understand a problem even after reading the key, get help.)
3. Come to Taniel's or my office hours and show us how to solve the problems you want credit for. You may write a solution and then explain it or explain as you are writing, but you need to do it without notes (beyond your formula sheet). The point is for you to really know how to do it on your own.
4. You have until the next exam to perform redos for the previous exam.

Grades: Your grade will be determined by the following breakdown :

- 5% MyMathLab, 15% assignments, 15% quizzes, 40% midterms, 25% final

Actual letter grades are calculated as follows. There are two methods available and I will use the one most favorable to you:

Either:

- A: At least 85% of available points
- A-: 75-84% of available points
- B+: 70-74% of available points
- B: 65-69% of available points
- B-: 60-64% of available points
- C+: 55-59% of available points
- C: 50-54% of available points
- C-: 45-49% of available points
- D: 35-44%
- F: Below 35% of available points

Or:

- A: Students in the top 15% of total point earners
- A-: The next 15% of total point earners
- B+: The next 10% of total point earners
- B: The next 10% of total point earners
- B-: The next 10% of total point earners
- C+: The next 10% of total point earners
- C: The next 10% of total point earners
- C- The next 10% of total point earners
- D: Lowest 10% of total point earners, unless fewer than 35% of total points are earned
- F: Below 35% of available points

Errors in recording and/or grading must be brought up within a week of the assignment being returned. Grades are fully determined by the numbers, so please don't request exceptions.

Keys to success in Math 103:

- (Background knowledge) You should be able to carry out basic algebra and trigonometry without too much difficulty. Some rust on topics you understood well in the past can be worked through, but if you have serious difficulties with these tools or never really mastered them, we should talk about options to help you. In addition, you need to be curious about mathematics and be willing to think through the material we discuss.

- (Submitted work) Write neatly and show all relevant work needed to understand your thought process. Incomprehensible and/or messy answers may not receive credit. The emphasis is on clear written explanations as well as explicit calculations. Be sure to use complete sentences and correct grammar in your work.
- (Tips) This is a challenging class. Here are some quick tips:
 - Be consistent in your studying and keep up with online and written homework.
 - Study beforehand the material we will discuss in class (enough to know what you do and don't understand so you can focus on the problem areas).
 - When you study a new concept, explain it to yourself in terms you understand and make connections with things you have already learned.
 - Be organized in taking notes and write just enough to remember the main points but not so much that you can't think as we're discussing. Afterwards, study your in-class notes.
 - Lastly (but very importantly), when you encounter tough concepts or things that aren't clear, identify what you are confused about and ask me, Taniel, and each other lots of questions until you understand.
- (Getting help) There are *many* resources to help you succeed in Math 103, so be sure to take advantage of them:
 1. Recitation sections exist to help you learn the material. Make the most of the opportunity: Come prepared and ask questions.
 2. Come to office hours (both mine and Taniel's).
 3. MyMathLab has tutorial videos that may be helpful in your study. Other helpful videos on calculus topics are those at <https://www.math.upenn.edu/ugrad/calculus-videos/pennmathvideos.html>.
 4. Look at the math department's resources for Math 103 at <https://www.math.upenn.edu/ugrad/calc/m103/>.
 5. Soon after the beginning of each term (usually the third week), the math department sponsors drop-in help at the Education Commons and campus residences. See <http://www.math.upenn.edu/ugrad/calc/help/help.html> for the schedule and locations. (This is a hidden gem; this service has been historically underutilized, so you should be able to get a lot of personal attention.)
 6. The Tutoring Center, which provides opportunities such as free tutoring appointments on campus as well as online basic math tutorials: <http://www.vpul.upenn.edu/tutoring/index.php>
 7. The Weingarten Learning Resources Center helps Penn students improve their academic performance: <http://www.vpul.upenn.edu/lrc/>.
 8. The math department maintains a list of tutors-for-hire: <http://www.math.upenn.edu/ugrad/tutors.html>

Academic Honesty:

- Do your best and don't compromise your integrity or your academic progress by cheating.

- You are welcome (and encouraged) to study together, talk about problems with others, look at math resources online, etc., but you need to write your final solution on your own (i.e., no copying, whether it be another student's solution or something online).
- Infractions will result in loss of credit for the exam or assignment and, depending on the situation, university discipline. For more details, see <http://www.upenn.edu/academicintegrity/>.

Accommodations: Please talk to me as soon as possible about accommodations through Student Disabilities Services (Stouffer Commons, 3702 Spruce Street, Suite 300, <http://www.vpul.upenn.edu/lrc/sds/>), scheduling conflicts with religious holidays, athletic events, etc., or working around health issues and other situations.