

Math 114 (a.k.a. Calculus II), Section 004
Spring 2018
TR 3:00-4:20 p.m., DRL A6
University of Pennsylvania

Welcome! Jason and I are looking forward to exploring multivariable calculus with you this semester.

Instructor: Dr. William Simmons, DRL 3N4C, wsimmo@sas.upenn.edu

(Please contact me in advance if an issue arises. Also, please read the syllabus and class announcements on Canvas carefully; many questions are already answered there.)

Office Hours (held in DRL 3N4C): M 1-2 p.m. and W 9-10 a.m.; others, time permitting, by appointment.

TA: Jason Liu, liujason@sas.upenn.edu. Office hours: TBA

Canvas: We will use the Canvas system (<https://canvas.upenn.edu>) as our homepage. Look there for assignments, announcements, and grades. Be sure to check the announcements regularly for changes to assignment due dates and other information. (It is helpful to receive automatic email notifications from Canvas about such things.)

Textbook and MyMathLab: Thomas' Calculus, Second Custom Edition for the University of Pennsylvania (with MyMathLab access code), Pearson. 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 103 and Math 104). Otherwise, you can purchase the code during registration.

To register, read the instructions in our first Canvas announcement. Alternatively, you can follow the instructions at <https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/get-registered/index.html>. Our course ID is: simmons08175.

To help you get more practice, you will have MyMathLab assignments once or twice a week most weeks (starting the week of Jan. 22 to give everyone a chance to add the class and register for MML).

Exam and other important dates:

- Add deadline: Monday, Jan. 29
- First midterm: Thursday, Feb. 8, in class
- Drop deadline: Friday, Feb. 16
- Second midterm: Thursday, Mar. 22, in class
- Withdrawal deadline: Friday, Mar. 30

- Last day of classes: Wednesday, Apr. 25
- Final exam: Tuesday, May 8, 12-2 p.m., location TBA

Assignments: Homework is generally due at the beginning of class on Thursdays (the first assignment is due Thursday, Jan. 18, in class); 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 two lowest homework scores will be dropped.

Quizzes: Most weeks during recitation there will be a quiz (the first will be the week of Jan. 22). Quizzes will be short (15 minutes at most), cover recent material, and are intended to be straightforward if you are keeping up. You may use one handwritten 8.5×11 formula sheet (both sides), but not electronic devices or other notes. It's important not to miss our class discussions and examples, so several times during the semester there will be an attendance "quiz" at the end of class. Your two lowest quiz scores (including attendance) will be dropped.

Exams: There are two midterm exams (on Thursday 2/8 and Thursday 3/22), both held in class. The final exam is Tuesday, May 8, from 12-2 p.m.; the location is TBA.

As with quizzes, you may use one handwritten 8.5×11 formula sheet (both sides) but no electronic devices or other notes.

Grading: Grades will be based on quizzes (10%), written homework (10%), MyMathLab (5%), midterm exams (45%), and the final exam (30%). (The actual scale is determined by the distribution of scores across all sections; this is the same system used in Math 103 and 104 and is required by university and department policy for multi-section courses.)

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

Keys to success in Math 114:

- (Background knowledge) You should be able to carry out basic algebra, differentiation, and integration without 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 lectures and 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. Think deeply about the material over an extended period of time (i.e., not just before exams).
 - 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 concepts that aren't clear, identify what you are confused about and ask me, Jason, and each other *lots of questions* until you understand.
- (Getting help) There are *many* resources to help you succeed in Math 114, 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 Jason's).
 3. Look at the math department's resources for Math 114 at <https://www.math.upenn.edu/undergraduate/calculus-homepages/calculus/mathematics-114>.
 4. 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 <https://www.math.upenn.edu/undergraduate/getting-help/calculus-help> 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.)
 5. 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>
 6. Helpful videos on calculus topics are found at <https://www.math.upenn.edu/undergraduate/calculus-homepages/math-video-archive>.
 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: <https://www.math.upenn.edu/math-department-approved-private-tutors>
 - (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.

Above all, let me know if you have questions or concerns. Best of luck for a great semester!