

# Math 240:

Calculus III

Fall 2019, Tue, Thu 10:30-12 PM at DRL A1

## Introduction

This course is an introduction to Linear Algebra and Ordinary Differential Equations, including topics such as: Matrices, vectors, Gaussian elimination, determinants, vector spaces, linear transformations, eigenvalues, eigenvectors, first and second order linear differential equations, systems of differential equations.

Please see the department Math 240 website for content and core problems: <https://www.math.upenn.edu/undergraduate/calculus-homepages/calculus/mathematics-240>.

## Text

We will use the text *Differential Equations and Linear Algebra* by Stephen W. Goode and Scott A. Annin, 4th Edition, 2017. Older versions are fine, with the caveat that we will assign homework problems from the latest edition. Other good references will be suggested as we go along.

## Contact information

*Instructor:* Davi Maximo, [dmaxim@math.upenn.edu](mailto:dmaxim@math.upenn.edu). Office: 3E2.

*TAs:* Yidi Wang, [yidiwang@sas.upenn.edu](mailto:yidiwang@sas.upenn.edu); Willy Fan, [fanwilly@sas.upenn.edu](mailto:fanwilly@sas.upenn.edu).

You must register for one of the TA's recitations:

Yidi Wang	Willy Fan
Section 201, Wednesdays 8-9am in DRL 4E19	Section 205, Wednesdays 8-9am DRL 4N30
Section 202, Wednesdays 9-10am in DRL 4E19	Section 206, Wednesdays 9-10am DRL 4N30
Section 203, Fridays 8-9am in DRL 4E9	Section 207, Fridays 8-9am DRL 4E19
Section 204, Fridays 9-10am DRL 4E9	Section 208; Fridays 9-10am DRL 4E19

## Resources

We encourage you to come to us for individualized help! Our office hours will be announced soon!

The class website will be <http://www.math.upenn.edu/~dmaxim/MATH240/MATH240.html>. It should be checked periodically.

You should also check the department's MATH 240 webpage at: <https://www.math.upenn.edu/undergraduate/calculus-homepages/calculus/mathematics-240>.

## Grade

*Homework.* There will be weekly homework assigned, worth a total of 15% of your final grade. Your lowest two homework grades will be dropped. Late homework will NOT be accepted, even for legitimate reasons.

*Midterms.* There will be two in-class midterms. The first one is set for October 3rd and the second for October 31st. The midterms, combined, will be worth 35% of your grade. There will be no make-ups for missed midterm exams.

*Final.* Our final exam will be held on December 16th from 9-11 am. It will be worth 40% of your final grade. Rules governing rescheduling and make-up final exams are set by the Provost: [http://www.upenn.edu/registrar/pdf\\_main/provost-rules.pdf](http://www.upenn.edu/registrar/pdf_main/provost-rules.pdf).

*Recitation.* There will be working activities every recitation. They will account for 10% of your grade. You can miss at most two of those and still get a full grade.

## Policies

*Homework.* When doing homework, you may use reference works and discuss problems with one another. However, *all work you submit must be your own*. Homework will be posted on the class website and it will be due *every Tuesday at the beginning of lecture*. No late homework will be accepted, but the lowest two homework grades will be dropped. Please make every effort to write your homework as legible as possible. This will prepare you better for your midterm. Don't forget to write your NAME and your TA's NAME on the first page, and to STAPLE your homework.

*Midterm exams:* There will be no make-up exams. If you miss your a midterm for a legitimate reason, I will replace it with an weighted average of your final exam and your homework.

*Accommodations:* UPenn provides, upon request, appropriate academic accommodations for qualified students with disabilities. For more information, contact the Office of Student Disabilities Services (<https://www.vpul.upenn.edu/lrc/sds/index.php>). If you fall under the OSD accommodation policy, it is your responsibility to deliver their certification of that fact to me as early in the semester as possible, and no later than one week prior to the first exam.

*Academic Integrity:* The highest levels of academic integrity, as detailed in the Pennbook, must be upheld in all activities related to this course. Students are encouraged to discuss homework problems with each other, but are required to write their solutions independently. The university-wide policies and procedures that are in effect regarding academic integrity, attendance, student conduct, secular and religious holidays, students with disabilities, etc. are clearly stated in the Pennbook, and will be followed strictly. Absence from an exam will result in a zero grade for that exam, except in extraordinarily unusual circumstances, with both a valid written excuse and instructor approval. Any requests for grade revision must be submitted in writing.