

# Course Syllabus

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## Math 291-2: Intensive Linear Algebra & Multivariable Calculus, Winter 2018

### Textbook and Course Content

*Linear Algebra with Applications, 5th edition* by Otto Bretscher

*Vector Calculus, 4th edition* by Susan Colley

We will aim to cover Chapters 5-8 of Bretscher and Chapters 2-4 (we'll look at Chapter 1 a bit, but most of this we will have done in linear algebra) of Colley, with some topics being covered in a slightly different order than how they are presented in the book. Specific topics include: orthogonal sets and matrices, determinants, eigenvalues and eigenvectors, symmetric matrices, multivariable limits and derivatives, the chain rule, gradients and Taylor polynomials. We will place a heavy emphasis on theory and proofs, with a side goal of the entire year-long sequence being to help prepare students for the more abstract mathematics they would see in certain 300-level courses.

### Exam Dates

Midterm 1: Thursday, February 8 in discussion

Midterm 2: Thursday, March 8 in discussion

Final: Wednesday, March 21, 3-5pm

These dates and times are set in stone so make sure you plan accordingly. If you have a conflict please see me as soon as possible.

### Assignments and Quizzes

Homework will (usually) be due on Fridays. You are welcome (and encouraged!) to work together on problem sets but each student must hand in their own assignment in their own writing. If you do work with others, please list the names of those with whom you worked on the front page of your homework.

Discussion will be devoted to working on additional problems together as a class and in groups. There will be no quizzes this quarter.

### Grades

Final scores will be computed according to the following percentages: 30% Homework, 20% Midterm 1, 20% Midterm 2, 30% Final. The specific percentages which constitute an A, B, etc. will be determined at the end of the course, but they will be no stricter than the standard A = 90-100, B = 80-89, etc. scale. In the end you

can expect that the median overall score will be enough for a B+.

## University Policies

Any student requesting accommodations related to a disability or other condition must register with AccessibleNU and provide the instructor with an accommodation notification from AccessibleNU, preferably within the first two weeks of class. All information will remain confidential. For more information, see <http://www.northwestern.edu/accessiblenu/> (<http://www.northwestern.edu/accessiblenu/>), or call (847) 467-5530.

Suspected violations of academic integrity will be reported to the Dean's Office. For more information on Northwestern's academic integrity policies, see

<http://www.weinberg.northwestern.edu/handbook/integrity/>  
(<http://www.weinberg.northwestern.edu/handbook/integrity/>).

Northwestern University is committed to fostering an environment where students are safe and free from sexual misconduct. Confidential resources are available to those who have experienced sexual misconduct. See <http://www.northwestern.edu/sexual-misconduct/get-help/confidential-support.html> (<http://www.northwestern.edu/sexual-misconduct/get-help/confidential-support.html>). Faculty and instructors are not confidential resources and are required to report incidents of sexual misconduct, whether discussed in your assignments or in person, to the Title IX Coordinator, who can provide information about resources and options. I encourage students who have experienced sexual misconduct to talk with someone to get support. For more information, including how to request interim protective measures and academic accommodations or file a complaint, see the Get Help page at <http://www.northwestern.edu/sexual-misconduct/get-help/index.html> (<http://www.northwestern.edu/sexual-misconduct/get-help/index.html>).

Northwestern University's Policies on Discrimination, Harassment, and Sexual Harassment apply to all members of the University community, including students, staff, and faculty. Any student, staff, or faculty member who believes \ that he or she has been discriminated against or harassed on the basis of his or her race, color, religion, national origin, sex, sexual orientation, gender identity, gender expression, parental status, marital status, age, disability, citizenship, veteran status, genetic information or any other classification protected by law, should contact the Office of Equal Opportunity and Access at (847) 491-7458 or the Sexual Harassment Prevention Office at (847) 467-6571. Additional information about the University's discrimination and harassment policies, including the campus resources available to assist individuals with discrimination or harassment concerns, is available online on the Human Resources Equal Opportunity and Access website. Visit <http://www.northwestern.edu/hr/equalopp-access/index.html> (<http://www.northwestern.edu/hr/equalopp-access/index.html>).

## Course Summary:

Date

Details

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Thu Feb 8, 2018



**Midterm 1**

<https://canvas.northwestern.edu/courses/66377/assignments/416352>

due by 12pm

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Thu Mar 8, 2018



**Midterm 2**

<https://canvas.northwestern.edu/courses/66377/assignments/416353>

due by 12pm

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Wed Mar 21, 2018



**Final**

<https://canvas.northwestern.edu/courses/66377/assignments/416355>

due by 3pm

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