Course Web Page: [https://cims.nyu.edu/~liming/Vector/2018.html](https://cims.nyu.edu/~liming/Vector/2018.html)

Office Hours: Thursday 10:00–12:00 CIWW Room 720


Teaching Assistant: TBA

Grading Policy: Homework (20%), Quiz 1 (5%), Quiz 2 (5%), Midterm (30%), Final (40%).

Exam Schedule:

- Quiz 1 ............................. Feb. 23, 2018
- Midterm .............................. Mar. 07, 2018
- Quiz 2 ............................. Apr. 19, 2018
- Final Exam ........................... TBA

Class Policy:

- Homework will be released each Thursday or Friday, and due on the following Friday during recitation. Late homework or emailed version shall NOT be accepted.

- You may discuss with your classmates about homework, but you should organize and write your solutions by yourself.

- We will NOT be able to accommodate out-of-sequence exams for purposes of more convenient travel, including already purchased tickets. Please note again the date of the exams and plan your travel accordingly.

- Exams will be close book. Books, paper or electronic material, calculator or electronic devices are NOT allowed during exams.

- The recitation is on Friday 09:30–10:45 at CIWW 202. The TA will discuss about some example exercises, remark on previous homework and review course material.
Tentative Course Outline:

01/22: Real Vectors
01/24: Basic Operations of Vectors
01/29: Line Integrals
01/31: Conservative Vector Fields
02/05: Surface Integral
02/07: Surface Integral
02/12: Volume Integral
02/14: Volume Integral
02/21: Partial Differentiation
02/26: Gradient
02/28: Gradient
03/05: Review
03/07: Midterm
03/19: Suffix Notation
03/21: Suffix Notation
03/26: Divergence
03/28: Curl
04/02: Divergence Theorem
04/04: Divergence Theorem
04/09: Stokes Theorem
04/11: Stokes Theorem
04/16: Electrodynamics
04/18: Tensors
04/23: Applications of Tensors
04/25: Differentiable Manifold
04/30: Cotangent Vectors
05/02: Tangent Vectors
05/07: Review