

MAT 308 Spring 2016 Syllabus

Textbook: Multivariable Mathematics, (4th ed.) by Williamson & Trotter.

Lecturer: Jingzhou Sun

Office: Math Tower 3102

Office Hours: M 1:00-3:00pm in my office, W 1:00-2:00pm in MLC, or by appt.

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Homework

You should visit The *BlackBoard* System for the homework assignments, and hand in them in your recitation the next week. Please notice that your TA will **NOT** accept late homework.

Quizzes

There will be a short quiz in your recitation session every other week. The first quiz will be taken in the week of Feb 8-Feb 12.

Exams

There will be two in class midterms, and of course one final exam, whose weights in the overall grade are listed below.

Grading

- 15% Homework
- 10% Quizzes
- 20% Midterm 1
- 20% Midterm 2
- 35% Final Exam (**cumulative**)

Stony Brook University expects students to maintain standards of personal integrity that are in harmony with the educational goals of the institution; to observe national, state, and local laws as well as University regulations; and to respect the rights, privileges, and property of other people. Faculty must notify the Office of Judicial Affairs of any disruptive behavior that interferes with their ability to teach, compromises the safety of the learning environment, or inhibits students' ability to learn.

DSS advisory: If you have a physical, psychiatric, medical, or learning disability that may affect your ability to carry out the assigned course work, please contact the office of Disabled Student Services (DSS), Humanities Building, room 133, telephone 632-6748/TDD. DSS will review your concerns and determine what accommodations may be necessary and appropriate. All information regarding any disability will be treated as strictly confidential.

Students who might require special evacuation procedures in the event of an emergency are urged to discuss their needs with both the instructor and DSS. For important related information, [click here](#).

Week of	Topics	Problems Due
Jan 25	10.1: 1st order DE, direction fields 10.2: Separation of variables 10.3: linear equations, integrating factors	Homework assignments will be updated in the BlackBoard System. Please check your BlackBoard updates
Feb 1	3.1: Linear Maps/Euclidean spaces 3.2: Vector Spaces 3.3: Linear Maps/Vector spaces	
Feb 8	3.4 Image and Null Space 3.5 Coordinates and Dimension 3.6 Eigenvalues and Eigenvectors	
Feb 15	3.6 Eigenvalues and Eigenvectors 3.7 Inner Products	
Feb 22	Ch.3/Ch.10/Midterm Review Midterm I, Wed. Feb 24th	No HW/Quiz this week Midterm I in class
Feb 29	11.1 Differential Operators 11.2 Complex Solutions, Higher Order Eqns 11.3 Nonhomogeneous Eqns	
March 7	11.4 Oscillations 11.5 Laplace Transform 11.6 Convolution	
Mar 21	12.1 Vector Fields 12.2 Linear Systems	
Mar 28	13.1 Eigenvalues/vectors 13.2 Matrix exponentials	
Apr 4	13.2 Matrix exponentials 13.3 Non-homogeneous equations	
Apr 11	Review Midterm, Wed. April 13rd	Midterm II in class
Apr 18	13.4 Equilibrium and Stability 13.5 Nonlinear Systems	
Apr 25	14.6 Differential Equations 14.7 Power Series Solutions	
May 2	Review	