

MAT 203 Spring 2016 Syllabus

Textbook: Larson, Edwards, Multivariable Calculus, 10th edition.

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.

Email: jingzhou.sun@stonybrook.edu

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	sections	Homework	Notes
1/25-1/29	11.1: Vectors in the Plane 11.2: Space Coordinate, Vectors in Space 11.3: Dot Product	<i>Homework assignments will be updated in the BlackBoard System. Please check your BlackBoard updates</i>	
2/1-2/5	11.4: Cross Product 11.5: Lines and Planes		
2/8-2/12	11.6: Surfaces in Space 12.1: Vector-Valued Function		
2/15-2/19	12.2: Differentiation, Integration of Vector-Valued Functions 12.3: Velocity and Acceleration 12.4: Tangent vectors, principal normal vectors		
2/22-2/26	12.5: Arc Length 13.1: Functions of Several Variables 13.2: Limits and Continuity		
2/29-3/4	13.3: Partial Derivatives Review Midterm I (In class)		Midterm I on 3/4
3/7-3/11	13.4: Differentials 13.5: Chain Rules		
3/14-3/18	Spring Recess. No Class.		
3/21-3/25	13.6: Directional Derivatives, Gradients 13.7: Tangent Planes, Normal Lines 13.8: Extrema of Functions of Two Variables		
3/28-4/1	13.9: Applications of Extrema 13.10: Lagrange Multipliers		
4/4-4/8	14.1: Iterated Integrals, Area in the plane 14.2: Double Integrals, Volume 14.4: Center of Mass		
4/11-4/15	14.3: Double integrals in Polar Coordinates Review Midterm II (In class)		Midterm II on 4/15
4/18-4/22	14.6: Triple Integrals 11.7: Cylindrical and Spherical Coordinates 14.7: Triple Integrals in Cylindrical and Spherical Coordinates		
4/25-4/29	15.1: Vector Fields 15.2: Line Integrals		
5/2-5/6	15.3: Conservative Vector Fields, Independence of Path 15.4: Green's Theorem		Last day of class