

Engineering 143

Monday, Wednesday 6:05-7:25

Please read the entire syllabus carefully before continuing in this course. Be sure that you are available for the exams.

Instructor: Dr. Matthew Romney (matthew.romney@stonybrook.edu)

Office: Math Tower 4-101B

Office Hours: Monday 2-3pm, Wednesday 4-5pm, or by appointment.

Recitation sections:

R20 84159	W 11:45am-12:40pm	Physics P112	Yoon-Joo Kim
R22 87016	F 1:00pm- 1:55pm	Socbehav Sci S328	Pranav Upadrashta
R23 87819	Tu 4:45pm- 5:40pm	Socbehav Sci S328	Pranav Upadrashta

Course Description Vector algebra in two and three dimensions, multivariate differential and integral calculus, optimization, vector calculus including the theorems of Green, Gauss, and Stokes. Applications to economics, engineering, and all sciences, with emphasis on numerical and graphical solutions; use of graphing calculators or computers. May not be taken for credit in addition to AMS 261.

Prerequisites: C or higher in MAT 127, MAT 132, MAT 142 or AMS 161, or level 9 on the mathematics placement examination

SBC: STEM+

Credits: 4

Course Webpage: www.math.stonybrook.edu/~mromney/mat203.html

Textbook: Larson and Edwards, Multivariable Calculus, 11th edition.

Discussion board: piazza.com/stonybrook/fall12021/mat203

All course related questions should be posted here.

Exam Dates

- Midterm 1: Wednesday, October 6, 6:05-7:25pm
- Midterm 2: Wednesday, November 17, 6:05-7:25pm
- Final Exam: Monday, December 13, 5:30pm-8:00pm

Graded Components

- **Homeworks** – 30% of course average.
- **Quizzes** – 10% of course average.
- **Two Midterm Exams** – 30% of course average
- **Final Exam** – 30% of course average

Homework

Homework will be done on WebAssign. You will need to purchase an access code for the course. Each week's homework assignment is due **Wednesday at 6:00 pm** of the following week.

You are welcome to discuss homework problems with your fellow classmates. However, you must completely understand your solution and write and submit your work on your own.

Exams

No make-up exams will be given. If a student misses a midterm exam with documented evidence, then the student's final exam grade will be substituted for the missed midterm. A

student must sit the final exam at the scheduled time in order to receive a passing grade in the class.

Recitation section and quizzes

As part of the course, you are enrolled in one of the corresponding recitation sections. This is a chance to review the material, ask questions and get additional practice. Most weeks will also feature a short quiz at the start of class. Each quiz will be based on the previous week's material.

Student Absences Statement

Students are expected to attend every class, report for examinations and submit major graded coursework as scheduled. If a student is unable to report for any exams or complete major graded coursework as scheduled due to extenuating circumstances, the student must contact the instructor as soon as possible. Students may be requested to provide documentation to support their absence and/or may be referred to the Student Support Team for assistance. Students will be provided reasonable accommodations for missed exams, assignments or projects due to significant illness, tragedy or other personal emergencies. In the instance of missed lectures, the student is responsible for the material covered. Please note, all students must follow Stony Brook, local, state and Centers for Disease Control and Prevention (CDC) guidelines to reduce the risk of transmission of COVID. For questions or more information, visit <https://www.stonybrook.edu/commcms/comingback/students.php>.

Disability Support Services

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services (631) 632-6748 or

studentaffairs.stonybrook.edu/dss/

They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website:

www.sunysb.edu/facilities/ehs/fire/disabilities

Academic Integrity

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at

www.stonybrook.edu/uaa/academicjudiciary/

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.

The instructor reserves the right to modify the standards and requirements in this syllabus. Notice of such changes will be by announcement in class, and changes to this syllabus will be posted on the course website.