

Spring 2022

MAT 203
Calculus III with Applications

J. Rooney

Textbook: Larson and Edwards, *Multivariable Calculus* (11th edition), Cengage Learning

Time and Location: MW 6:05–7:25 PM, in Engineering 145

Office: Simons Center 511

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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.

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

SBC: STEM+

Credits: 4

Office Hours: Available at <https://www.math.stonybrook.edu/cards/rooneyjacob.html>.

Recitation Sections:

R20	Jared Krandel	Th 1:15–2:10 PM	Lgt Engr Lab 152	Jared's office hours
R21		Th 9:45–10:40 AM	Earth&Space 079	
R22	Roberto Albesiano	M 10:30–11:25 AM	Harriman Hall 112	Roberto's office hours
R23		W 8:30–9:25 AM	Physics P116	

Grades: Your course average will be computed using the following weights:

20% Homework + 20% Midterm I + 20% Midterm II + 40% Final Exam

Homework and Quizzes: Homework will be assigned every Monday on WebAssign and due the following **Monday at 6:00 PM**. You will need to purchase access for the course (there is a two week grace period before you have to pay). Links to WebAssign are posted on the course Blackboard page under “WebAssign.” No late homework will be accepted, but your lowest homework score will be dropped.

Exams: There will be two in-class midterm exams on the following days:

Wednesday, February 23, 2022, from 6:05–7:25 PM

Wednesday, April 6, 2022, from 6:05–7:25 PM

The final exam is on

Wednesday, May 11, 2022, from 5:30–8:00 PM

Exams are closed book and closed notes, and calculators are not allowed. Concerns about exam grading must be brought to the instructor’s attention signed and in writing within one week of the graded exam being returned.

There will be no make-ups for missed midterms. If you miss a midterm for any reason, your final exam grade will be substituted for the missed midterm. You must take the final exam to receive a passing grade in this class.

Classroom Expectations: Since this is a large class, there are a few guidelines that everyone must follow. Please refrain from disruptive behavior during class, such as unnecessary talking. **As a matter of courtesy, please keep your cell phones turned off during class. Laptops should only be used to take notes.** Everyone is required to wear a mask or face covering in accordance with university policy.

Email Policy: You should email your TA first with most questions. I will usually respond to emails within 24 hours, though in the busier parts of the semester it may take more time to receive a response. Please include “MAT 203” in the subject line when emailing me. In the interest of maintaining students’ privacy, the TAs and I will only respond to emails sent from email addresses listed on Blackboard.

Academic Integrity Statement: 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 is required to report any suspected instances of academic dishonesty to the Academic Judiciary. Faculty in the Health Sciences Center (School of Health Technology & Management, Nursing, Social Welfare, Dental Medicine) and School of Medicine are required to follow their school-specific procedures. For more comprehensive information on academic integrity, including categories of academic dishonesty please refer to the academic judiciary website at http://www.stonybrook.edu/commcms/academic_integrity/index.html

Student Accessibility Support Center Statement: If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact the Student Accessibility Support Center, Stony Brook Union Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. 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 the Student Accessibility Support Center. For procedures and information go to the following website: <https://ehs.stonybrook.edu//programs/fire-safety/emergency-evacuation/evacuation-guide-disabilities> and search Fire Safety and Evacuation and Disabilities.

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 Student Conduct and Community Standards any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, or inhibits students’ ability to learn. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures. Further information about most academic matters can be found in the Undergraduate Bulletin, the Undergraduate Class Schedule, and the Faculty-Employee Handbook.

N.B. This syllabus is not a contract, and the instructor retains the right to modify it at any time.