MAT 132: Calculus II
Spring 2024

A continuation of MAT 131, covering symbolic and numeric methods of integration; area under a curve; volume; applications such as work and probability; improper integrals and l'Hospital's rule; complex numbers; sequences; series; Taylor series; differential equations; and modelling. May not be taken for credit in addition to MAT 127, MAT 142, MAT 171, or AMS 161. See **Weakly Plan** for details.

Textbook: Stewart/Kokoska Calculus: Concepts and Contexts, 5th edition.

We will also use **Notes on Second Order Linear Differential Equations.**

Instructors:

Lecture 01 (M W, 4:00 – 5:20pm): **Stephanie Lamb**, Math Tower 2-120

Lecture 02 (Tu Th, 5:30 – 6:50pm): **Dzmitry Dudko**, Math Tower 2-117

Homework: WebAssign homework will be assigned weekly in this course. Access to WebAssign is mandatory for this course.
WebAssign homework should be completed and submit online by **10 pm on Friday** of the week following the posting of the assignment.

Quizzes: Most weeks there will be a quiz during one of the recitations.

Exams: There will be two evening Midterms on

Feb 26 (Mon), 8:30 - 9:50 pm and on **Apr 11 (Thu), 8:30 - 9:50 PM**

and the Final Exam.

Grading: Your final grade will be determined as follows:

WebAssign Homework: 10%

Quizzes: 15%

Midterm 1 and Midterm 2: 20% + 20%

Final Exam: 35%

Required syllabus statements

Student Accessibility Support Center Statement:

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Student Accessibility Support Center, Stony Brook Union Suite 107, (631) 632-6748, or at sasc@stonybrook.edu. They will determine with you what accommodations, if any, 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.

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 Professions, 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

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.