

MAT 131 CALCULUS I
FALL 2015
GENERAL INFORMATION

Instructor. Matthieu Arfeux

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Office: Math Tower 4-119

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

MLC Hours: Wednesday 11-12.

Blackboard. Grades and some course administration will take place on Blackboard. Please login using your NetID at <http://blackboard.stonybrook.edu>.

Course Description. MAT 131 is the first course in the 2-semester single variable calculus sequence. It covers limits, continuous functions, derivatives and their applications, antiderivatives and the fundamental theorem of calculus. The course moves rather quickly. Students who would like to learn the same material at a somewhat slower pace should take MAT 125. The three-semester sequence MAT 125-126-127 covers the same material as the two-semester sequence MAT 131-132.

Textbook. We will try to follow the following textbook:

Single Variable Calculus: Concepts and Contexts, 4th ed, by James Stewart.

See <http://www.cengagebrain.com/course/site.html?id=1-201CHVD> for example

Tentative of Schedule.

- Week of 8/31: 2.2,2.3,2.5 Limits
- Week of 8/31: 2.4 Continuity
- Week of 9/7: 3.1, 3.2 Derivatives, **Labour day M-Tu**
- Week of 9/14: 3.3 Derivatives, 3.4 Chain Rule
- Week of 9/21: 3.4 Chain Rule, 3.5, 3.6, 3.7 More Differentiation
- Week of 9/28: Review, **Exam Th**, 4.5 L'Hospital Rule
- Week of 10/5: 4.1 Related Rates
- Week of 10/12: 2.8, 4.3 Curve Sketching
- Week of 10/19: 4.2, 4.6 Optimization
- Week of 10/26: Review
- Week of 11/2: **Exam M**, 5.1, 5.2 Riemann Sums
- Week of 11/9: 5.3 and 5.5 Antiderivatives
- Week of 11/16: 5.4 The fundamental Theorem
- Week of 11/23: Review **Thanksgiving We-Su**
- Week of 11/30: Review Session?
- Week of 12/7: **Final exam We**

Exams. There will be two midterms and a final exam, scheduled as follows:

- Midterms – 10/1 and 11/2, 8:45pm-10:15pm.
- Final Exam – Wednesday, December 9, 11:15am-1:45pm.

There will be no make-up exams.

Grading policy. Grades will be computed using the following scheme:

Midterm I = 25%

Midterm II = 25%

Final Exam = 30%

Homework and Recitation Participation= 20%

Students are expected to attend class regularly and to keep up with the material presented in the lecture and the assigned reading. There will be (roughly) weekly homework assignments and/or web assignments.

WebAssign will beginning August 31, students will be assigned web-based exercises using an online system. Your access code can be purchased as webassign for MAT 131 in our bookstore. For questions related to WebAssign, please email Professor Andersen at **randersen@math.sunysb.edu**. Information on how to access this system will be brought to you via your Blackboard account by 8/31. Please pay careful attention to due dates as there are no extensions!

Extra Help. You are welcome to attend the office hours and ask questions about the lectures and about the homework assignments. In addition, math tutors are available at the MLC: <http://www.math.sunysb.edu/MLC>.

Special Needs. If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Disability Support Services, ECC (Educational Communications Center) Building, Room 128, (631) 632-6748, or at the following website <http://studentaffairs.stonybrook.edu/dss/index.shtml>. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

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 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/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 University 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.