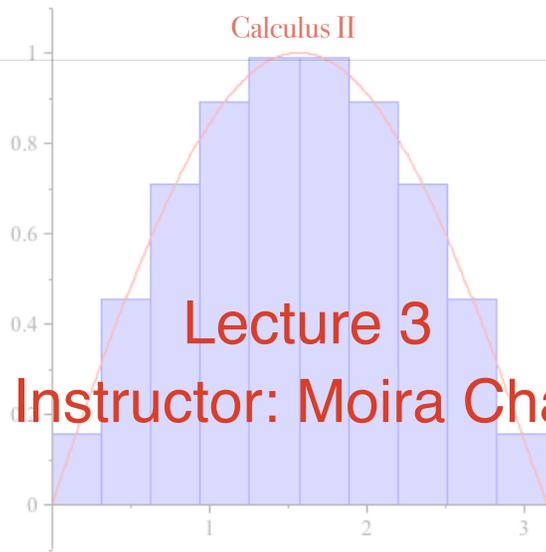


MAT 132
Calculus II



About me, your instructor

- ♦ Moira Chas
- ♦ Assistant Professor at the Math Department.
- ♦ PhD. in Mathematics 1998, Universitat Autònoma de Barcelona.
- ♦ MAT 132 coordinator
- ♦ Math interests: Low dimensional geometry and topology.

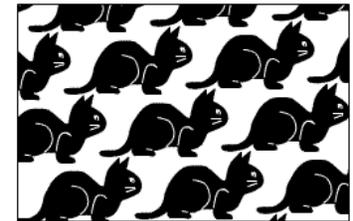
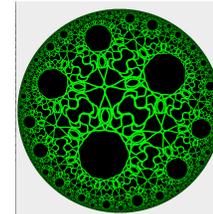
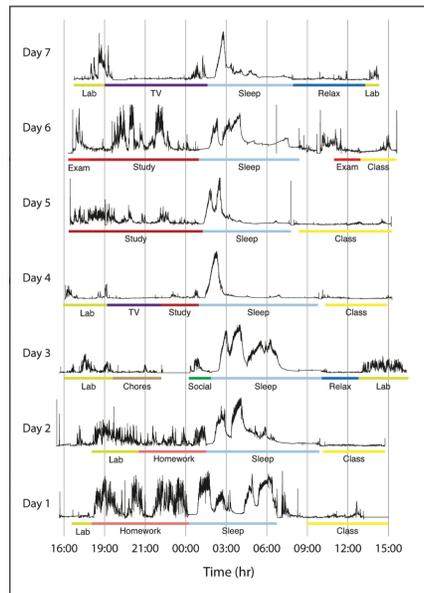


Table by Eric Mazur

Let's make brain waves
in this lecture.



Online Resources

- ♦ Course Website:
 - ♦ <http://www.math.sunysb.edu/~moira/mat132-fall14/>
 - ♦ Syllabus, homework schedule, exams dates, announcements, handout slides (including the one you are reading).
- ♦ Blackboard:
 - ♦ Written Homework grades, link to WebAssing homework.
 - ♦ WebAssign homework grades will be posted in the WebAssign page.

Space, cyberspace and time coordinates

- ❖ Moira Chas
- ❖ Best way to contact me:
 - ❖ moira.chas at stonybrook.edu
- ❖ Website:
 - ❖ <http://www.math.sunysb.edu/~moira/>
- ❖ Office: 3-119 Math Tower
- ❖ Office hours:
 - ❖ Tu 3:30 - 5:30PM 3-119 Math Tower
 - ❖ Th : 11:45-12:45PM P-143 Math Tower.

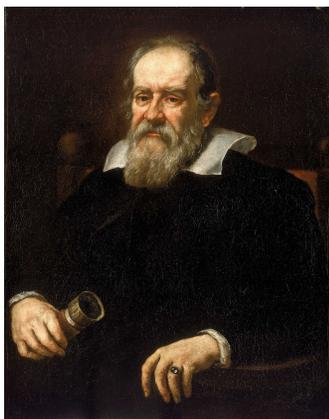


Course Description (from the Undergraduate Bulletin)

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 modeling.

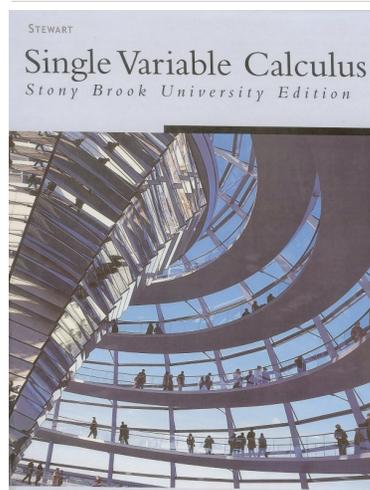
Integrals: Computation and applications
Sequences and Series.
Differential Equations.

Why learn mathematics?



This book [the universe] is written in the mathematical language, and the symbols are triangles, circles and other geometrical figures, without whose help it is impossible to comprehend a single word of it; without which one wanders in vain through a dark labyrinth.
Galileo Galilei

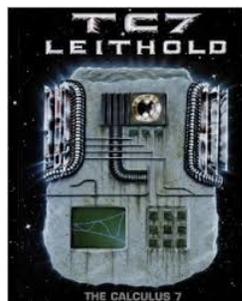
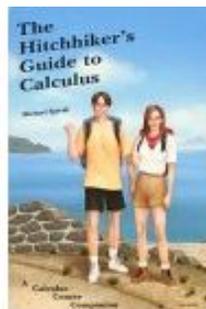
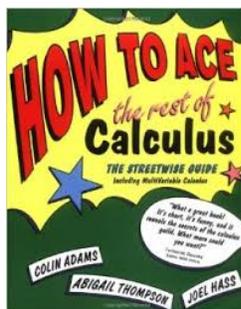
The textbook



Textbook: James Stewart, Single Variable Calculus
Stony Brook University Edition 4,
Brooks/Cole Publishing,

Reminder: You will need access to
WebAssign.

Other books (not mandatory)



Grades



- Midterm I: 20 %
- Midterm II: 20 %
- Final : 40 %
- Weekly Written Homework (about 2 problems/week): 8 %
- Weekly WebAssign (about 25 problems/week): 12%

Effort will always contribute but it is not the basis of the grade.

Written homework assignments are due in recitation the second meeting of the following week

WebAssign homework are due before Thursday 10AM of the following week.

The two lowest grades of WebAssign homework will be dropped.

How can you succeed in this course?

- ❖ Dedicate around 6-8 hours/wk to this course (outside the classroom). During these hours, your goal should be to **understand** the material. To do so,
 - ❖ Read the assigned sections of the textbook beforehand (with paper and pencil handy). Work on written homework
 - ❖ Work on WebAssign homework
 - ❖ Work on additional problems if needed.
 - ❖ If you want to use calculators and solutions manuals, do it mindfully. (Note that calculators and solution manuals are not required and their misuse might detrimental)

How can you succeed in this course?

- ❖ Do not leave the homework for the last minutes before the deadline.
- ❖ Attend to lectures and recitations and when you do, be *completely* in the class. (This implies no use of electronics (cell-phone, MP3 player, etc.)
- ❖ Get help if you need it, as soon as you need it.

Where can you get help?

- ❖ Your recitation instructor
- ❖ Me
- ❖ The Math Learning Center.
- ❖ Tutoring centers in at Stony Brook http://www.stonybrook.edu/commcms/academic_success/
- ❖ Your classmates.

Homework and Exams policies

- No late homework will be accepted.
- All grading questions should be addressed first to your recitation instructor.
- There will be no make-up exams.
- If you have a serious documented reason communicate it to me as soon as possible and the semester grade will be determined based on the balance of the work in the course.
- Calculators are not allowed during examinations.
- Any issue interfering with your course work should be communicated to your instructors as early as possible.

Written Homework must contain

- ❖ The statement of the problem
- ❖ An answer that is emphasized.
- ❖ If there is no work shown, there is no credit. In other words, an answer with no justification is not admissible (even if it is the correct answer!)

Written Homework Assignments

- ❖ Two problems from each weekly set must be submitted to be graded.
- ❖ You should submit these problem the second meeting of your recitation, the following week.
- ❖ Each graded problem is worth 10 points.
- ❖ Submitted homework should be legible and written in complete English sentences.

WebAssign Homework

- ❖ There will be about 25 WebAssign problems each week.
- ❖ Access to WebAssign through Blackboard.
- ❖ More instructions in the course website.

Is it allowed to work in teams?

- ❖ You may discuss the assignments in this course with classmates, before working in the write-up.
- ❖ Each student's submission must be his or her own work.
- ❖ It is not allowed to browse the Internet for solutions.

Email communications

- During the semester, I will send a few emails. Please make sure that you check the Stony Brook email account regularly.
- This is a large class, so from now on, there are certain email messages that I will not be able to answer, for instance:
 - Messages whose answer is contained in the course website
 - Asking something that you could have asked to a classmate (like "what did you cover on Monday?")
 - Messages telling me something you could have told me the following day in class.
- I will answer messages about appointments to discuss my favorite subject, Math (remember to include possible meeting times) or course related question that really require a timely answer.
- Messages should be appropriately written in complete English sentences.

ACADEMIC DISHONESTY

- **All work you submit for homework, final, or exams MUST be your own work.**
- **If you cheat or aid someone in cheating, you will automatically fail this course and be brought up on charges of academic dishonesty without warning.**
- **Cheat includes: presenting work of other as your own, copying other student work, facilitate that other student copies your work, use of notes, calculators and/or electronic devices during examinations.**