

MAT 132: FALL 2017

Course Description

We begin by discussing areas under curves, distances traveled, definite integrals, the fundamental theorem of calculus, volumes of 3-dimensional regions and the length of curves. Then we examine some differential equations: what are they; how can these differential equations be solved; of what use are they? We also study infinite sums of numbers (“series”) and polynomials of infinite degree (“power series”); when do infinite sums of numbers make sense; when does an infinite polynomial define a function; of what use are series and power series?

Text *Single Variable Calculus Stony Brook Edition 4*: by James Stewart; this edition comes with an access code for Webassign (which we will be using this semester). You may also use *Single Variable Calculus: Concepts and Contexts, 4th edition* by Stewart, or any earlier edition of this text book. However if your text does not come with an access code to Webassign, then you will have to purchase this separately.

Information about Course Teachers

Lecture 01: instructor= Jozef Bodnar; email=jozef.bodnar@stonybrook.edu; office=2-120 in math tower; office hours are TBA.

Lecture 02: instructor= Yu Li; email = yu.li@stonybrook.edu (and at yli427@wisc.edu) ; phone=?; office=?; office hours are TBA.

Lecture 03: instructor = Lowell Jones; email= lowell.jones@stonybrook.edu; phone = 632-8248; office= 2-111 in math tower; office hours are TBA.

Lecture 04 instructor= Luca Fabrizio Di Cerbo; email = lucafabrizio.dicerbo@stonybrook.edu; office = ?; office hours TBA.

R01: instructor=Harrison Pugh; email=hpugh@math.stonybrook.edu; office=2-107 in math tower; office hours are TBA.

R02 and R40: instructor= Gaurish Telang; email= gaurish.telang@stonybrook.edu; office = 2-110 in math tower; office hours are TBA.

R03 and R32: instructor=Juan Ysimura; email = ysimurajuan@gmail.com; office=? office hours are TBA.

R04 and R41: instructor=Alexandra Viktorova; email= alexandra.viktorova@stonybrook.edu; office=S-240A in math tower; office hours TBA.

R05 and R25: instructor= Joseph Thurman; email= jthurman@math.stonybrook.edu; office = 2-107 in math tower; office hours are TBA.

R06 and R24: instructor=Shoasai Huang; email= ahuang@math.stonybrook.edu; office = 2-114 in math tower; office hours are TBA.

R20 and R22: instructor=Charles Cifarelli; email = charles.cifarelli@stonybrook.edu; office = 2-122 in math tower; office hours are TBA.

R21: instructor=Manju Prakash; email = manju.prakash@stonybrook.edu; office = ?; office hours TBA.

R23: instructor = Sichen Zhong; email = sichen.zhong@stonybrook.edu; office = ?; office hours are TBA.

R30 and R31: instructor = Zhuang Tao; email = zhuang.tao@stonybrook.edu; office = 2-114; office hours are TBA.

Homework

Homework is assigned each week. Each assignment will consist of between 10 and 15 “WebAssign” problems, assigned during the weekend before the relevant material is covered in Lecture. These problems should be completed and submitted on line by 7am Wednesday in the week following the relevant lectures. For example the first homework assignment (HW 1) should be completed (and submitted on line) by 7am Wednesday 9/6/17. Late submissions will receive 0 points credit, except in the case of emergencies beyond your control.

To find your homework assignments on our Blackboard websites just click on the link for your mat 127 Lecture, then click on “Tools” and finally click on “Access WebAssign”. You will find the first homework (HW 1) is already posted there.

When you first access your the WebAssign account, please go to the **My Options** page and enter your email address.

As they are assigned the online problems may be completed at anytime before the assigned deadline. You can look at problems online, print them out, work on them as long as you like, and then answer them in a later Internet session (before the deadline). The online problems are automatically graded with an instant feed back. If you get the answer wrong for a particular problem you can retry it. However with each wrong answer you lose points: if you get the answer correct on the first try you get full credit; if you get the correct answer on the second try you get 1/2 credit; if you get the answer correct on third try you get 1/3 credit; etc.

At the beginning of the semester there is a two week “grace period” during which you may access WebAssign without an access code. But within the first 2 weeks you are required to purchase a WebAssign access code. If you purchase the course text book (stonybrook fourth edition thru amazon)

it should come with an access code (just a string of letters and numbers) printed on a sheet of paper. If you buy the text book elsewhere, or buy a used text book, then you may have to purchase an access code (for WebAssign) separately. Without a WebAssign access code, you will not be able to continue accessing WebAssign after the first two weeks of class. That means you will not be able to complete the WebAssign homework assignments.

Exams

There are two evening midterms beginning at 8:45pm and ending at 10:15pm on Monday 10/2/17 and on Thursday 11/2/17. The final exam will take place on Wednesday 12/13/17 from 2:15pm to 5:00pm. The place of the exams will be announced in a timely fashion.

If you register for this course you must make sure that you have no schedule conflicts with the times of the midterms and final exam. Makeup exams will only be given in the event that circumstances beyond the student's control do not allow the student to take the exams at the assigned times; **in particular "schedule conflicts" are not acceptable reasons for a makeup to be given.**

Grading

Homework=15%

Midterm I=25%

Midterm II=25%

Final exam =35%

Americans with Disabilities Act:

If you have a physical, psychological, medical or learning disability that may impact on your ability to carry out assigned course work, please contact Disability Support Services (DSS) at 632-6748. The DSS will review your concerns and 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 with DSS. For procedures and information go to the following website:

<http://www.stonybrook.edu/ehs/fire/disabilities>

Academic Integrity:

Each student must pursue his or her 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 instances of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, see the academic judiciary web site at <http://www.stonybrook.edu/cinncms/academic-integrity/index.html>

Critical Incident Management Statement:

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, or inhibits students' ability to learn.

Syllabus .

Week of 8/28-9/1: sections 5.1,5.2.

Week of 9/4-9/8: sections 5.3,5.4; no classes on 9/4-9/5 (labor day break).

Week of 9/11-9/15: section 5.4,5.5.

Week of 9/18-9/22: sections 5.6,5.7.

Week of 9/25-9/29: sections 5.7,5.10.

Week of 10/2-10/6: sections 6.1,6.2. Midterm I on Monday 10/2.

Week of 10/9-10/13: 6.3,6.4.

Week of 10/16-10/20: 6.5,,6.6 (concept of "work" only in 6.6).

Week of 10/23-10/27: sections 7.2,7.3.

Week of 10/30-11/3: sections 7.4,7.5. Midterm II on Thursday 11/2.

Week of 11/6-11/10: sections 8.1,8.2.

Week of 11/13-11/17: sections 8.3, 8.4.

Week of 11/20-11/24: section 8.5. No classes on 11/22-11/24 (thanksgiving break).

Week of 11/27-12/1: sections 8.6, 8.7.

Week of 12/4-12/8: section 8.7 and review.