

MAT 127, CALCULUS C, SPRING 2015

Course Description

This is the final course of the three-semester calculus sequence MAT 125, 126, and 127. We shall cover differential equations of first and second order, sequences and series, power series, and their applications.

Webpage

<http://www.math.sunysb.edu/~khuri/MAT127.html>

Text

Single Variable Calculus: Concepts and Contexts by James Stewart; either the Stony Brook Edition or the 4th Edition these two editions differ only by their cover. We will cover chapters 7 and 8 of this text.

Please see the following website for information about purchasing the textbook and WebAssign: www.math.sunysb.edu/~scott/mat125.spr15/textbook.html

Course Instructors and Graders

Lecture 01: Marcus Khuri; Office = Math Tower 3-122; Office Hours = MWF 11am-12pm; Email = khuri@math.sunysb.edu

Lecture 02: Aleksey Zinger; Office = Math Tower 3-111; Office Hours = Tu 9am-12pm; Email = azinge@math.sunysb.edu

Lecture 03: Marie-Louise Michelsohn; Office = Math Tower 5-113; Office Hours = MWF 10-11am; Email = mlm@math.sunysb.edu

Lecture 04: Aliakbar Daemi; Office = SCGP 304; Office Hours = ???; Email = adaemi@scgp.stonybrook.edu

Lecture 05: Yuanqi Wang; Office = Math Tower 4104; Office Hours = TuTh 2-3:30pm; Email = ywang@scgp.stonybrook.edu

Grader: Xiaojie Wang; Office = Math Tower 5-125B; Office Hours = M 9am-12pm; Email = wang@math.sunysb.edu

Homework

Homework will be assigned each week. Each assignment will consist of either online WebAssign problems and/or traditional paper based problems. The assignments will be posted the weekend

before the relevant material is covered in lecture. Paper based problem sets will be fewer in number and will be posted on the class website, whereas WebAssign problem sets will be more numerous and will be posted online at your WebAssign account. These online problems should be completed by 9am Wednesday in the week following the relevant lectures. For example, the first homework assignment (HW 1) should be completed by 9am Wednesday 2/4/15. Similarly, paper based homeworks should be turned in to the grader no later than 3pm Wednesday in the week following the relevant lectures. The grader will have a box sitting outside his office, containing five envelopes each labeled with a lecture number, into which you should place your paper based homeworks. You must show all relevant work in order to receive full credit. Be sure to include your name, student ID, and lecture number when turning in your paper based homework.

No late homework will be accepted. However, a single homework (with the lowest score) will be dropped in computing the final grade.

To find your online homework assignments on the Blackboard website, 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 WebAssign account, please go to the “My Options” page and enter your email address. 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 instant feedback. 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 $3/4$ credit; if you get the answer correct on third try you get $1/2$ 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 two weeks you are required to purchase a WebAssign access code. If you purchase the course textbook at the university book store, it comes with an access code. If you buy the textbook elsewhere, or buy a used text book, then you will need to purchase an access code (for WebAssign) separately: this can be done at www.webassign.net. 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.

The following website containing the contact information for WebAssign’s technical support:
<https://webassign.com/contact-us/>

Due to the large size of this class, we ask that you do not email mathematical questions (eg. how to do a specific problem) to the instructors. Rather, such questions should be addressed during office hours.

Exams

There will be two evening midterms beginning at 8:45pm and ending at 10:15pm on 3/2/15 and on 4/1/15. The final exam will take place on 5/13/15 from 11:15am to 1:45pm. 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. No makeup exams will

be given for missed midterms. However, if you miss an exam because of documented circumstances beyond your control, then, at the discretion of the course coordinator, the relevant score may be dropped in computing your course grade.

Usage of Calculators

Calculators will not be allowed at any of the exams. However, feel free to use them for homework assignments.

Grading

Homework = 15%

Midterm Exam I = 25%

Midterm Exam II = 25%

Final Exam = 35%

Support Resources

The MATH LEARNING CENTER (MLC), located in the Math Tower, room S-240A, is a place where students can go for help and/or to form study groups. See the following webpage for more information: www.math.sunysb.edu/MLC/index.html.

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: 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 persons 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 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.

Course Schedule

Jan 26-30: Review basic formulae for derivatives and antiderivatives from Calculus A and B; 7.1

Feb 2-6: 7.2

Feb 9-13: 7.3

Feb 16-20: 7.4

Feb 23-27: 7.5; 7.6

Mar 2-6: Exam I (Mar 2); 2nd order ODE (see notes at class website)

Mar 9-13: 8.1; 8.2

Mar 16-20: Spring Break

Mar 23-27: 8.3

Mar 30-Apr 3: Exam II (Apr 1); 8.4

Apr 6-10: 8.5

Apr 13-17: 8.6

Apr 20-24: 8.7

Apr 27-May 1: 8.8

May 4-8: Review for final.