Course Description
We begin by reviewing the notion of a function; for example there are the polynomial functions, rational functions, exponential functions, trigonometric functions and logarithmic functions. In terms useful for studying the motion of objects, there are position functions, velocity functions and acceleration functions. Each function has a derivative (function) associated to it; the derivative of the position function is the velocity function, and the derivative of the velocity function is the acceleration function. Thus the derivative measures the rate of change of the values of a function with respect to the independent variable. Most of this course is devoted to the study of derivatives and their applications.

Text Single Variable Calculus: Concepts and Contexts by James Stewart; either the Stony Brook Edition or the 4’th Edition – these two editions differ only by their cover.

Information about Course Teachers

Robert Abramovic: R13 and R32; email=rabramo2@math.sunysb.edu; office= math tower S-240A; office hours=TBA.

Ying Chi: R04 and R09; email=ychi@math.sunysb.edu; office= math tower 2-122; office hours=TBA.

Cameron Crowe: R07 and R10; email=ccrowe@math.sunysb.edu; office= Physics E-101; office hours=TBA.

Panagiotis Gianniotis: R01 and R31; email=pgiannio@math.sunysb.edu; office=math tower 2-121; office hours=TBA.

Xuntao Hu: R14; email=xuntaohu@math.sunysb.edu; office= math tower S-240A; office hours=TBA.

Xiaolong Huang: R02 and R03; email=xiaolhuang@math.sunysb.edu; office=Physics A-103; office hours=TBA.

David Jensen: Lecture 03; email=djensen@math.sunysb.edu; phone=632-4005; office=math tower 4-120; office hours=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 by 7am Wednesday in the week following the relevant lectures. For example the first homework assignment (HW 1) should be completed by 7am Wednesday 2/6/13. 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 125 Recitation (not the Lecture), then click on “Tools” and finally click on “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 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 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 in our University book store it comes 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 will need to purchase an access code (for WebAssign) separately: this can be one 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.

Exams
There are two evening midterms beginning at 8:45pm on 2/27/13 and on 4/4/13. The final exam is on midterm I will take place in class on Friday 10/5/12; midterm II will take place in class on Friday 11/16/12. The final exam will take place on 5/20/13 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. 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 reasons for a makeup to be given.

Grading
Homework=20%
Midterm I=25%
Midterm II=25%
Final exam =30%

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/TDD. The DSS will review your concerns and determine, with you, what accommodations are necessary and appropriate. All information and documentation is confidential.

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 see 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 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. Further information about most academic matters can be found in the undergraduate Bulletin.

Syllabus.
Week of 1/28-2/1: cover sections 1.1-1.3 and Appendices A,B,C.
Week of 2/4-2/8: cover sections 1.5,1.6 and 2.1 and Appendix C.
Week of 2/11-2/15: cover sections 2.1-2.3.
Week of 2/18-2/22: cover sections 2.4-2.6.
Week of 2/25-3/1: cover sections 2.7,2.8; midterm I at 8:45-10pm on 2/27.

Week of 3/4-3/8: cover sections 3.1,3.2.
Week of 3/11-3/15: cover section 3.3.
Week of 4/1-4/5: cover sections 3.6,3.7; midterm II at 8:45-10pm on 4/4.

Week of 4/8-4/12: cover section 3.9,4.1.
Week of 4/15-4/19: cover sections 4.1,4.2.
Week of 4/22-4/26: cover sections 4.3,4.4.
Week of 5/6-5/10: last week of classes; cover section 4.8.