Syllabus for MAT 122 Fall 2017

Overview of Calculus with Applications

About this course: The goal of this course is to ensure that you learn the basics of calculus that you will use in Business. This means that we will need to accomplish several things:

- Ensure that you have fluency with functions and graphs.
- Ensure that you are comfortable and conversant with the underlying concepts of Differential and Integral Calculus.
- Be able to apply the above to problems in the business world. Fluency in understanding the language of Calculus is essential for success in Business.

The text is *Calculus and it's Applications (11th edition)*, by Bittinger, Ellenbogen, and Surgent.

Use of MyMathLab is required but you are NOT required to purchase the textbook. There are many options regarding the text other than from the bookstore. If you can find a used copy, or a 10th or 9th edition, that will be fine. You can purchase MyMathLab directly through Pearson. Or, when you initially access MyMathLab, you will be offered the opportunity to purchase it directly through the web site.

You may use calculators to help you with learning the material or for homework and MyMathLab problems. You may **NOT** use a calculator on exams.

Course Prerequisites: In order to take MAT122, you must have either

- Passed MAP103 with a grade of C or better, or
- Received a score of level 3 or better on the math placement exam.

Homework

Most weeks you will have paper homework problems that you must hand in at recitation. *Homework is due at the beginning of your recitation,*. You will also be required to use MyMathLab for further homework problems. *In general, MyMathLab assignments will be due on Wednesdays at Noon. You should check MyMathLab frequently for due dates.* If you are having difficulty understanding a topic, we suggest that you meet go to your recitation section, meet with your TA, go to the Math Learning Center (located in the basement of the Mathematics Tower), or go to your professor's office hours.

Exams

There are two midterms and a final. The schedule is:

Midterm 1	Tuesday, October 3	8:45 – 10:15 PM
Midterm 2	Monday, October 30,	8:45 – 10:15 PM
Final	Wednesday, December 13	11:15 AM – 1:45 PM

Rooms the exams will be announced in Blackboard in advance of each exam.

We do not give makeup exams but instead replace an exam missed for a valid reason by a grade computed on the balance of the work in the course.

Note that the Midterms are at night, not in the morning!

Important Dates:

There are no classes September 4 and 5, and November 22-26. Classes end on December 8. You may drop without any tuition liability until September 3. You may withdraw without a "W", or add/swap classes, until September 12 at 4:00 pm. You may move up or down in MAT/MAP courses until October 6 at 4:00 pm. You may withdraw with a "W" until October 27 at 4:00 pm. You may change the course to Grade/Pass/No Credit until October 27 at 4:00 pm.

How your grade will be calculated

Homework, MyMathLab – 10% Midterm 1 – 25% Midterm 2 – 25% Final – 35% We reserve up to 5% for participation.

Blackboard

Please check Blackboard frequently. Assignments, announcements, grades, etc. will be posted on Blackboard. When items are posted, you will receive an email informing you of the fact. At that point, you will be presumed to know what has been posted. We suggest that you check Blackboard before you email your TA or professor.

LEC 01	MWF	11:00am-11:53pm	Simons Center	103	David Kahn
R01	Tu	4:00pm-4:53pm	Physics	P116	Stephanie Salvator
R02	М	10:00am-10:53am	Library	E4330	Michael Albanese
R03	W	10:00am-10:53am	Harriman	116	Silvia Ghinassi

Professors and Teaching Assistants

Course Schedule

Date	Topic	Relevant Chapters
Week of 28-Aug	Administrative material	
	Functions and Graphs	R.1, R.2
Week of 4-Sept	Domain and Range	R.3
	Slope	R.4
Week of 11-Sept	Linear equations and graphs	R.4
	Nonlinear Functions and Models	R.5, R.6
Week of 18-Sept	Limits	1.1, 1.2
	Limits	
Week of 25-Sept	Derivative Rules	1.5
	Review for Midterm 1	
Week of 2-Oct	Midterm 1	
	Go over Midterm 1	
Week of 9-Oct	Product and Quotient Rules	1.6
	The Chain Rule, Higher-Order	
	Derivative	1.7, 1.8
Week of 16-Oct	Applications	Chapter 2
	Applications	Chapter 2
	Exponential/Logarithmic	
Week of 23-Oct	Functions	3.1, 3.2
	Review for Midterm 2	
Week of 30-Oct	Midterm 2	
	Go over Midterm 2	
Week of 6-Nov	Applications	3.3-3.6
	Antiderivatives	4.1, 4.2
Week of 13-Nov	Area and Definite Integrals	4.3, 4.4
	Area and Definite Integrals	4.3, 4.4
Week of 20-Nov	Substitution	4.5
	Substitution	4.5
Week of 27-Nov	Applications	Chapter 5
	Applications	Chapter 5
Week of 4 Dec	Cumulative Review	
	Cumulative Review	

Americans with Disabilities Act:

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, room128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential. Students requiring emergency evacuation are encouraged to discuss their needs with their professors and DSS. For procedures and information, go to: http://www.ehs.sunysb.edu and look at Fire Safety and Evacuation and Disabilities

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 are 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 Judicial Affairs 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.

Conduct

Stony Brook University expects students to maintain standards of personal integrity that are in harmony with the educational goals of the institution; to observe national, state, and local laws and University regulations; and 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. Faculty in the HSC Schools and the School of Medicine are required to follow their school-specific procedures.