MAT123: Precalculus
Fall 2019 - Hybrid
COURSE SYLLABUS

Instructor: Deb Wertz debra.krieg@stonybrook.edu
Recitation: Stephanie Salvator stephanie.salvator@stonybrook.edu

Overview: You will study functions and their properties with special emphasis on polynomial, rational, logarithmic, exponential and trigonometric functions, all skills necessary to be successful in a calculus course. This is NOT a calculus course.

Pre-requisite: Score of 3 or better on placement exam.

Textbook: *Pre-Calculus: A Right Triangle Approach* by Ratti. You do not need to get a hard copy of the book. You will, however, be required to purchase an online homework access code. When you purchase the access code, it will be bundled with an electronic version of the text. For best pricing, purchase the code/ebook directly through MyLab.

Calculator: Calculator will not be used on exams but will be required to complete some of the homework problems.

Blackboard: All course materials will be available on Blackboard. Lecture videos/slides as well as curriculum and syllabus can be found by clicking Resources. Access online homework by clicking MyLabMath tab; click Paper Homework tab to access assignments to be handed in during recitation.

Grading: Your course grade will be determined from the following items:

Exam 1 = 25%

Exam 2 = 25%

Final Exam = 35%

Homework/Participation = 15%

Exams: See Curriculum file on Blackboard for exam dates. **BOTH MIDTERMS ARE AT 8:45PM**! Be sure to clear up any work conflicts as make-up exams will not be given under any circumstances. If a midterm is missed due to a documented emergency, the final exam score will replace that missing score.

MyLabMath/Pearson: There will be a web-based homework assignment corresponding to **each lecture**. MyLabMath can be accessed through "Tools" in Blackboard - with this procedure you will not need a course key or login. Purchasing the access code is required as the vast majority of the homework will be done online. The code should cost ~$75 when you buy it directly through Pearson. It is more expensive (~$100) to purchase the bundle anywhere else – even SOLAR.

Homework Guidelines:

1. Working through problems is crucial to understanding math. An online assignment will be available after each set of lecture slides so you can get practice with the material.
2. You will have the opportunity to ask homework questions during recitation. Print out the assignment, try to work through all the problems and bring it to class along with your work so you can get the most out of the class.

3. You will have 5 chances to solve each question plus resources such as “Show Me How to Solve This” are also available for each problem.

Office Hours: In addition to recitation, we will be holding both on campus and virtual office hours. See instructions on Blackboard for how to schedule a virtual appointment.

Discussion Boards: You will be asked to participate in various discussion boards throughout the semester.

Concerns: If you have ANY problem related to the course, please feel free to discuss it with us. We truly want you to succeed in this course and will do whatever we can to help resolve the problem. You can talk to me before or after class, during office hours or via email.

Americans with Disabilities Act: If you have a physical, psychological, medical or learning disability that may impact your course work, please contact the Student Accessibility Support Center or SASC (formerly DSS), ECC (Educational Communications Center) Building, room 128, (631) 632-6748. They will determine with you what accommodations, if any, are necessary and appropriate. All information and documentation is confidential.

Note: once you are registered with them, you must also schedule a time to take an exam **every time.**

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.

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Course Curriculum

subject to change - check regularly

Fall 2019
as of: 8/23/2019 10:10 PM

Week #	Topics	MyLab		Comments		
week of	**26-Aug**					
1	domain/range I			(looks like more than it is…)		
	function - introduction					
	symmetry					
	domain/range II					
	combining functions					
	composing/decomposing functions			9/1: deadline to drop wo		
				tuition liability		
week of	**2-Sep**					
2	LABOR DAY 9/2					
	difference quotient					
	common graphs					
	transformations					
week of	**9-Sep**			9/9 4pm: Last day to drop wo a W		
3						
	inverse functions					
	linear function model					
	quadratic functions					
	completing the square					
week of	**16-Sep**					
4						
	polynomials					
	Intermediate Value Theorem	no				
	long division of polynomials					
	angles					
week of	**23-Sep**					
5						
	unit circle					
	Pythagorean Theorem					
	Pythagorean Identity					
	symmetry of trigonometric functions	no				
week of	**30-Sep**					
6	beyond the unit circle			**Exam 1: Thu Oct 3rd 8:45-10:15PM**		
	signs of trigonometric functions			covers material from Weeks 1-4		
	evaluate trigonometric functions			room TBA		

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week of	**7-Oct**					
7	exponent laws					
	exponential function					
	exponential growth/decay			10/4 4pm: deadline to move up		
				to 125 or down to MAP103		
week of	**14-Oct**					
8	FALL BREAK 10/14-10/15					
	logarithmic function model					
week of	**21-Oct**					
9	solving exponential/logarithmic equations			10/25 4pm: deadline to		
				GPNC or withdraw w W		
week of	**28-Oct**					
10	graph sine and cosine functions					
	graph tangent function					
week of	**4-Nov**					
11	inverse trigonometric functions					
	sum/difference angle formulas					
week of	**11-Nov**			**Exam 2: Tue Nov 12th 8:45-10:15PM**		
	trigonometric identities			covers material from Weeks 5-**10**		
12	double angle formulas			plus foundation material		
	law of sines/law of cosines			room TBA		
week of	**18-Nov**					
	trigonometric equations					
13	rational functions					

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week of	**25-Nov**					
14						
	THANKSGIVING BREAK 11/21-25		an opportunity to catch up/start final review			
	introduction to limits	no				
week of	**2-Dec**					
15						
	review					
	READING DAY 12/11			**Final Exam: Thu Dec 12th 2:15-5PM**		
				final is cumulative w an emphasis		
				on material covered in Weeks 11-13		
				room TBA		