Math 1214 PILOT Syllabus - Spring 2024				
Precalculus - Pathways to Calculus: A Problem-Solving Approach,				
by Carlson, O'Bryan, Oehrtman, and Moore (with online homework)				
We	ek	Sections	Topics	Work Outside of Class
		M Jan 15	No Class - MLK Jr. Day	Module 2 Investigation 0
		Intro	Introduction to Precalculus	
		M2I1	Quantities and Co-variation of Quantities	
Week 1	Jan 15-19	M2I2	Representing quantities and changes in quantities	
		M2I2	Representing quantities and changes in quantities	
		M2I3	Constant rate of change and linear functions	
		M2I4	Constant rate of change and proportionality	
Week 2	Jan 22-26	M2I6	Distance formula and equation of a circle	
		M2I7	Absolute Value	Module 3 Investigation 0
		M3I1	The box problem and modeling relationships	
		M3I2	Function relations and domain of functions	
Week 3	Jan 29 -Feb 2	M3I3	Using and interpreting function notation	
		M3I4	Function composition: Chaining together two function process	
		M3I6	Inverse functions: Reversing the process	
Week 4	Feb 5-9	M3I7	Introducing the difference quotient	
		W Feb 14	Test 1 - Module 2 and Module 3	Module 4 Investigation 0
		M4I1	Percentages and Percent Change	
Week 5	Feb 12-16	M4I2	Comparing linear and exponential behavior	
		M4I6	Compounding periods and compound interest formula	
		M4I7	Investment activity: Focus on formulas and motivating e	
		M4I8	The inverse of an exponential function	
Week 6	Feb 19-23	M4I9	Solving exponential and logarithmic equations	
		M5I1	The bottle problem - modeling and co-varying relationships	Module 5 Investigation 0
		M5I3	Transformations of polynomial functions	
Week /	Feb 26 - Mar 1	M514	Quadratic functions	
		MELA	Spring Break March 2 - March 10	Madula C Investigation 0
		IVI514	Quadratic functions (vertex form and completing the square)	iniodule 6 investigation 0
Wook 9	Mar 11 15	Mei1	Introduction to Pational Eulections and Vertical Asymptotes	
Week 0	10101 11-13	Mei2	End behavior of rational functions	
		M613	Graphing rational functions and understanding limits	
Week 9	Mar 18-22	M614	Co-variation of numerators and denominators of rational functions	
Week 5	10-22	W Mar 27	Test 2 - Module 4. Module 5. and Module 6.	Module 7 Investigation 0
		M711	Angle Measure	inoudie / investigation o
		M712	Angle Measure in Context	
Week 10	Mar 25-29	M713	Representing circular motion	
		M714	Using sine and cosine function to track circular motion	
		M715	Using the sine and cosine function in applied settings	
		M7I6	Transformations of the sine and cosine functions	
Week 11	Apr 1-5	M7I7	Shifts/transformations of period functions	
		M7I8	The tangent function	Module 8 Investigation 0
		M7I9	Negative angle measure, co-terminal angles, and periodicity	
		M7I10	Inverse trigonometric functions	
Week 12	Apr 8-12	M810	Relevant skills and procedures (Unit Circle)	
	<b>F</b> -	M8I1	Right triangle trigonometry	
		M8I2	Right triangle trigonometry applications	
Week 13	Apr 15-19	M8I3	Trigonometric identities	
		M Apr 22	Test 3 - Module 7 and Module 8 (10, 11, 12)	
		M8I3	Trigonometric identities	
Week 14	Apr 22-26		Solving trigonometric equations	
			Solving trigonometric equations	
Week 15	Apr 29 - May 1		Review for final exam	
FINAL EXAM			Final Exam	