				MATH 1226	Syllabus Spring 2025	
Week			Section	Topic	Textbook Calculus: Early Transcendentals (w/WebAssign) 9th Edition, Stewart	WebAssign Quiz Due
	4		Martin Luther Kir			
Week 1) - 24	2	5.5	Intro to Course / Substitution Rule (Review)	p. 425-426: # 8, 11, 21, 40, 46, 50, 59, 73	
	n 20	3	5.2	The Definite Integral (Review)	p. 394-395: # 1, 6, 8, 11, 16 p. 442-443: # 1, 3, 10, 11, 17, 27, 31 (setup only with respect to both dx and dy), 35,	5.5
	Jan	4	6.1	Areas Between Curves	p. 442-443: # 1, 3, 10, 11, 17, 27, 31 (setup only with respect to both ax and dy), 35, 41	5.2
					Complete Getting Started with WebAssign and Basic Skills R	eview by Mon, 1/
Week 2	31	1	6.2a	Volumes (Known Cross-Sections)	p. 458: # 67-68 (setup only)	6.1
		2	6.2b	Volumes (Disk/Washer)	p. 456: # 3, 15, 16, 18, 21, 25, 26, 27, 30, 31, 35, 39, 42	6.2a
	Jan 27 -	3	6.3	Volumes by Cylindrical Shells	p. 464-465: # 2, 7, 10, 20, 26, 30, 31, 35, 53, 54	6.2b
	Ja	4	6.4a	Work (Springs/Ropes)	p. 470-471: # 1, 5, 7, 9, 10, 12, 13, 15, 16	6.3
Week 3		1	6.4b	Work (Pumping liquids)	p. 471-472: # 21, 23, 24, 25, 26	6.4a
	3-7	2	6.5	Average Value of a Function	p. 475: # 1, 6, 7, 10, 15, 16	6.4b
week 5	Feb	3	7.1a	Integration by Parts	p. 490-491: # 5, 14, 15, 16, 25, 28, 34, 36	6.5
		4	7.1b	Integration by Parts	p. 490-491: # 24, 39, 43, 46, 47, 68	7.1a
Week 4	- 14	2	7.2 7.3a	Trigonometric Integrals Trigonometric Substitution	p. 498-499: # 2, 4, 9, 13, 17, 18, 21, 22, 24, 29, 33, 46, 50, 64	7.1b 7.2
	10	3	7.3b	Trigonometric Substitution Trigonometric Substitution	p. 505: # 7, 12, 14, 18, 24, 27 p. 505: # 29, 30, 32, 33, 35, 36	7.2 7.3a
	Feb	4	Review	Trigonometrie Substitution	p. 303. II 23, 30, 32, 33, 30	7.50
		1	TEST 1	Includes material through Section 7.2		
	21	2	7.4a	Integration of Rational Functions by Partial	p. 515: # 1, 3a, 9, 12, 14, 19, 41, 55	7.3b
Week 5	17 -		,.Tu	Fractions	p. 320 2, 30, 3, 12, 17, 13, 33	
	Feb	3	7.4b	Integration of Rational Functions by Partial Fractions	p. 515: # 3b, 6, 27, 32, 37, 54	7.4a
	-	4	7.5	Strategy for Integration	p. 522: # 10, 15, 16, 17, 21, 23, 24, 29, 30, 47, 56, 71	7.4b
		4	7.7	I a constitute to the constitute	Complete Pathways 1 Asse	
Week 6	28	2	7.7 6.1	Approximate Integration Income Inequality and the Gini Index	p. 539: # 1, 2, 6, 7 p. 446 Applied Project: # 1, 3	7.5 7.7
	24 -			Applications to Physics and Engineering (Centers of		
	Feb 2	3	8.3	Mass)	p. 585: # 22, 23, 25, 27, Setup: 29 (with respect to both dx and dy), 31, 32	6.1
	_	4	4.4a	Indeterminate Forms and L'Hospital's Rule	p. 316-317: # 1, 2, 5, 7, 13, 14, 21, 43, 50, 53	8.3
	. 7	1	4.4b	Indeterminate Forms and L'Hospital's Rule	p. 317: # 57, 58, 61, 64, 65	4.4a
Week 7	ır 3	3	7.8a 7.8b	Improper Integrals	p. 550: # 11, 12, 19, 22, 27, 31, 51 p. 549-551: # 2, 35, 36, 39, 42, 45, 56, 65, 69	4.4b 7.8a
	Mar	4	8.5	Improper Integrals Probability	p. 598: # 1, 2, 4a,b, 5, 7, 8	7.8b
					g Break (Mar 8 - 16)	
Week 8		1	11.1a	Intro to Convergence and Divergence	p. 735-736: # 1, 7, 17, 19, 29, 31, 33, 35, 37, 39, 41, 43, 45	8.5
	- 21			Sequences		
	r 17	2	11.1b11.2a	Sequences Series	p. 736-737: # 44, 47, 48, 49, 50, 51, 53, 58, 66, 78, 79 p. 747-748: # 1, 3, 9, 15, 23, 24, 27, 29, 31	11.1a
	Mar	3	Review	ocnes	p. 7 7 7 10 11 1 1 9 9 7 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1 1 1 2 1	
		4	TEST 2	Includes material through Section 8.5		
Week 9	- 28	1	11.2b	Series	p. 748-749: # 33, 39, 40, 42, 45, 48, 50, 59, 61	11.1b/11.2a
	24	3	11.3 11.4a	The Integral Test	p. 758-759: # 2, 4, 5, 6, 7, 13, 15, 17, 23, 24, 25, 29	11.2b 11.3
	Mar	4	11.4a	The Comparison Tests The Comparison Tests	p. 764: # 1, 2, 7, 9, 14, 17 p. 764-765: # 11, 13, 19, 21, 25, 26, 33, 40	11.4a
				The companison rests	Complete Pathways 2 Asse	
Week 10	pr 4	1	11.5a	Alternating Series and Absolute Convergence	p. 772-773: # 1, 2, 3, 4, 6, 7, 8, 11, 13, 37, 39, 41, 46	11.4b
	1-A	2	11.5b	Alternating Series and Absolute Convergence	p. 773: # 22, 23, 24, 25, 28, 29	11.5a
	Mar 31 - Apr	3	11.6a 11.6b	Ratio and Root Tests	p. 778: # 1, 3, 5, 9, 10, 13, 14, 27, 33 p. 778-779: # 15, 16, 19, 21, 24, 25, 35, 39, 41	11.5b 11.6a
	+	1	11.60	Ratio and Root Tests Strategy for Testing Series	p. 781: # 9, 10, 11, 13, 15, 16, 17, 19, 21, 22, 24, 25, 29, 30, 35, 41-44	11.6a 11.6b
Week 11	7 - 11	2	11.8	Power Series	p. 786: # 11, 13, 17, 19, 21, 26, 31, 33, 38	11.7
week 11	Apr 7	3	11.9a	Representations of Functions as Power Series	p. 793-794: # 3, 4, 9, 10 17, 21	11.8
	-	4	11.9b	Representations of Functions as Power Series	p. 793-794: # 27, 32, 34, 35, 46	11.9a
Week 12	- 18	2	11.10a 11.10b	Taylor and Maclaurin Series Taylor and Maclaurin Series	p. 808-809: # 4, 14, 21, 24, 39, 43, 55	11.9b 11.10a
	Apr 14	3	11.100 11.11a	Applications of Taylor Polynomials	p. 809: # 60, 61, 65, 66, 68, 84, 86 p. 818: # 3, 5, 8, 9, 11	11.10a 11.10b
	Apı	4	11.11b	Applications of Taylor Polynomials	p. 818: # 13, 18, 19, 25, 26, 28	
Week 13	25	1	Review			11.11
	21 -	2	TEST 3	Includes material through Section 11.11		
	Apr 2	3	10.1	Curves Defined by Parametric Equations	p. 668-671: # 8, 9, 10, 13, 14, 17, 19, 26, 30, 37, 41, 42, 56	10.4
	_	1	10.2 10.3a	Calculus with Parametric Curves	p. 679-682: # 1, 9, 19, 21, 34, 47, 51, 55	10.1 10.2
Week 14	May 2	2	10.3a	Polar Coordinates Polar Coordinates	p. 692: # 3, 5, 11, 12, 15, 16, 17, 21, 25 p. 693: # 33, 36, 37, 39, 44, 56, 57	10.2 10.3a
		3	Review	. 5.5. 666 6.114 6.65	p. 222 30, 50, 51, 50, 11, 50, 51	10.3b
	Apr 28	4	Review			
·		1	Davie		Complete Pathways 3 As:	essment by Sat, !
	6	1	Review			
		2	Review			
Week 15	May 5 -	2	Review Reading Day	No classes/exams (May 8)		