

Math 575 Fall 2018 Calendar

Date	Reading	Topic	Unit	Homework Due	Comments
22-Aug	W	1B, 1C	Number Systems	Real and Complex Numbers	First Day of Classes
24-Aug	F	1C	The Real Line		
27-Aug	M	2A, 2B	Real Numbers		
29-Aug	W	2D	Complex Numbers	#0: p. 9: 1,14; p. 12: 1,2	
31-Aug	F	3A	Sequences	Real and Complex Sequences	
3-Sep	M	Labor Day			
5-Sep	W	3B	Upper and lower limits	#1: p. 14: 1; p. 20: 4,5; p. 28: 5,7	
7-Sep	F	3C	The Cauchy criterion		
10-Sep	M	3D	Algebraic properties of limits	#2: pp. 32-33: 1, 7,10, 16	
12-Sep	W	3E	Subsequences		Last Day to Drop
14-Sep	F	3F	The extended reals and convergence to $\pm\infty$		
17-Sep	M	4A	Convergence and absolute convergence	#3 p. 37, 1, p. 38, 3; p. 40, 1	
19-Sep	W	4B	Tests for absolute convergence		
21-Sep	F	4C	Conditional convergence		
24-Sep	M	5A	Power series	Power Series	#4 p. 48, 1; pp. 53-54, 19, 24
26-Sep	W	5B	Differentiation of power series		
28-Sep	F	5C	Products and the exponential function		
1-Oct	M		Review	# 5 p. 63, probs. 3, 9; p. 66, prob. 1	

3-Oct	W		First Exam on 1B-1C, 2A-2B, 2D, 3A-F, 4A-C, 5A-B			
5-Oct	F	6A	Metrics	Metric spaces		
8-Oct	M	6B	Interior points, limit points, open and closed sets		#6 p. 74, problems 1,3	Midterm Grade Window Opens
10-Oct	W	6C	Coverings and compactness			
12-Oct	F	6C	Coverings and compactness continued			
15-Oct	M	6D	Sequences, compactness, sequential compactness		#7 p. 78, 2; p. 81, 1, 2	Midterm
17-Oct	W	6D	Compactness continued			
19-Oct	F	7A	Continuous functions	Continuous functions	#8 p. 83, 7, 12	
22-Oct	M	7A	Continuous functions, continued			
24-Oct	W	7B	Real- and complex-valued functions		#9 p. 89, 1, 3, 4, 6	
26-Oct	F	7B	Real and complex-valued functions			
29-Oct	M	7C	The space $C(I)$			
31-Oct	W	7D	The Weierstrass approximation theorem		#10 p. 91, 1, 3; p. 94, 1, 2, 6	
2-Nov	F		Review and catch-up			
5-Nov	M		Review and catch-up	Calculus		
7-Nov	W		Review and Catch-Up			
9-Nov	F	8A	Midterm Exam II on 6A-6D, 7A-7D			
12-Nov	M	8A	Differential Calculus			
14-Nov	W	8B	Differential Calculus			

16-Nov	F	8C	Differential Calculus			
19-Nov	M	8C	Integral calculus		#11: p. 104, 1b, 2, 3, 5, 6	
21-Nov	W		Thanksgiving			
23-Nov	F		Thanksgiving			
26-Nov	M	8D	Integral Calculus		#12: p. 107, 1; p. 112, 1(a)	
28-Nov	W	8D	Riemann sums			
30-Nov	F	8E	Riemann sums			
3-Dec	M		Taylor's Theorem		#13: p. 112, 3,4; p. 116, 2; p. 117, 8, 11	
5-Dec	W		Review and Catch-up			
7-Dec	F		Review and Catch-up			Last Day of Classes

12-Dec	W	Final Exam, 1:00-3:00 PM
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