Math 378: Number Systems
Fall 2023 Course Schedule

September 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
August 27	August 28 **First Day of Class!** Introductions and expectations	August 29	August 30 **Chapter 1: The Peano Axioms**	August 31	1	2
3	4 **Labor Day, no classes**	5	6 **Chapter 1: The Peano Axioms** Homework 0 due at 11:59pm on Gradescope	7	8	9
10	11 **Chapter 1: The Peano Axioms Chapter 2: The Natural Numbers as an Ordered Set**	12	13 **Chapter 2: The Natural Numbers as an Ordered Set**	14	15	16
17 Homework 1 due at 11:59pm on Gradescope	18 **Chapter 2: The Natural Numbers as an Ordered Set**	19	20 **Chapter 2: The Natural Numbers as an Ordered Set Chapter 3: Cardinality and Counting**	21	22	23
24 Homework 2 due at 11:59pm on Gradescope	25 **Quiz 1** **Chapter 3: Cardinality and Counting**	26	27 **Chapter 3: Cardinality and Counting Chapter 4: The Integers**	28 SMIMIC Talk	29	30

October 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1 Homework 3 due at 11:59pm on Gradescope	**2 Chapter 4: The Integers**	**3**	**4 Chapter 4: The Integers**	**5**	**6**	**7**
8	**9 Chapter 4: The Integers** **Chapter 5: Exploring the Integers**	**10**	**11 Chapter 5: Exploring the Integers** Homework 4 due at 11:59pm on Gradescope	**12** SMIMIC Talk	**13**	**14**
15	**16 Quiz 2** **Chapter 5: Exploring the Integers**	**17**	**18 Chapter 5: Exploring the Integers** **Chapter 6: Modular Arithmetic**	**19**	**20**	**21**
22	**23 Chapter 6: Modular Arithmetic**	**24**	**25 Chapter 6: Modular Arithmetic** Homework 5 due at 11:59pm on Gradescope	**26** SMIMIC Talk	**27**	**28**
29	**30 Chapter 7: The Rational Numbers**	**31 Halloween**				

November 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Chapter 7: The Rational Numbers **Dia de los Muertos** Homework 6 due at 11:59pm on Gradescope	**2** SMIMIC Talk	**3**	**4**
5	**6** Chapter 7: The Rational Numbers Chapter 8: Sequences and Limits	**7**	**8** Chapter 8: Sequences and Limits Homework 7 due at 11:59pm on Gradescope	**9** SMIMIC Talk	**10** Veterans Day Observed, no classes	**11**
12	**13** Quiz 3 Chapter 8: Sequences and Limits	**14**	**15** Chapter 9: Completeness and Continuity	**16**	**17**	**18**
19	**20** Chapter 9: Completeness and Continuity	**21**	**22** Asynchronus Class: Give yourself one hour and use the internet to learn everything you can about constructing the real numbers. Write a paragraph explaining a few of the things you learned. Homework 8 due at 11:59pm on Gradescope	**23** Thanksgiving Holiday, no classes	**24** Thanksgiving Holiday, no classes	**25**
26	**27** Chapter 10: Constructing the Real Numbers	**28**	**29** Chapter 10: Constructing the Real Numbers Homework 9 due at 11:59pm on Gradescope	**30** SMIMIC Talk		

December 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	**2**
3	**4** Chapter 11: Exploring the Real Numbers	**5**	**6** Last Day of Class **Chapter 11: Exploring the Real Numbers** Homework 10 due at 11:59pm on Gradescope	**7**	**8** Homework 11 due at 11:59pm on Gradescope	**9**
10	**11** Final Exam 4-6 pm Academic Hall 404	**12**	**13**	**14**	**15**	**16**
17	**18**	**19**	**20**	**21**	**22**	**23**
24	**25**	**26**	**27**	**28**	**29**	**30**
31						