Math 378: Number Systems
Fall 2023 Course Schedule

September 2023

◄ August   October ►

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** Homework 0 due at 11:59pm on Gradescope	**6** Chapter 1: The Peano Axioms	**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**	**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 Chapter 5: Exploring the Integers	**5**	**6**	**7**
8 Homework 4 due at 11:59pm on Gradescope	**9** Chapter 5: Exploring the Integers	**10**	**11** Chapter 5: Exploring the Integers	**12**	**13**	**14**
15	**16** Quiz 2 Chapter 5: Exploring the Integers Chapter 6: Modular Arithmetic	**17**	**18** Chapter 6: Modular Arithmetic	**19**	**20**	**21**
22 Homework 5 due at 11:59pm on Gradescope	**23** Chapter 6: Modular Arithmetic	**24**	**25** Chapter 6: Modular Arithmetic	**26**	**27**	**28**
29 Homework 6 due at 11:59pm on Gradescope	**30** Chapter 7: The Rational Numbers	**31**				

November 2023

◄ October

December ►

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 Chapter 7: The Rational Numbers	**2**	**3**	**4**
5 Homework 7 due at 11:59pm on Gradescope	**6 Chapter 7: The Rational Numbers Chapter 8: Sequences and Limits**	**7**	**8 Chapter 8: Sequences and Limits**	**9**	**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 Homework 8 due at 11:59pm on Gradescope	**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.	**23** Thanksgiving Holiday, no classes	**24** Thanksgiving Holiday, no classes	**25**
26 Homework 9 due at 11:59pm on Gradescope	**27 Chapter 10: Constructing the Real Numbers**	**28**	**29 Chapter 10: Constructing the Real Numbers Chapter 11: Exploring the Real Numbers**	**30**		

December 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
					1	**2**
3 Homework 10 due at 11:59pm on Gradescope	**4** Chapter 11: Exploring the Real Numbers	**5**	**6** Last Day of Class **Chapter 11: Exploring the Real Numbers**	**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						

Grading Scheme

Assignment	Percentage of Final Grade
Homework	45%
Quiz 1	10%
Quiz 2	10%
Quiz 3	10%
Final	25%