MATH 312 Sections 1 & 2 Concepts of Real Analysis Fall 2023 Schedule

Lec.	Date	Section	Topic
1	8/21	2,3	Introduction. Rational numbers. Ordered fields.
2	8/23	3, 4	Absolute value. Maximum and minimum. Upper and lower bounds.
3	8/25	4	Supremum and infimum. Completeness Axiom.
4	8/28	4,5	Quiz 1. Archimedean property. Denseness of \mathbb{Q} in \mathbb{R} . Symbols ∞ and $-\infty$.
5	8/30	7,8	Sequences. Limits of sequences. Definition and examples.
6	9/1	7, 8, 9	Uniqueness of the limit. Diverging sequences. Bounded sequences.
-	9/4		Labor Day - no classes.
7	9/6	9	Quiz 2. Limit theorems for sequences: constant multiple, sum, product.
8	9/8	9	Limit of the quotient. Squeeze Lemma (Ex. 8.5). Binomial Theorem (Ex. 1.12).
9	9/11	9	Quiz 3. Basis examples. Sequences diverging to ∞ and $-\infty$.
10	9/13		Worksheet 1.
11	9/15		
12	9/18		Quiz 4.
13	9/20		
14	9/22		
15	9/25		Quiz 5.
$\frac{16}{17}$	9/27		Review
	9/29		
18 19	10/2		Exam 1: Real numbers and sequences.
20	$\frac{10/4}{10/6}$		
21	10/9		Quiz 6.
22	$\frac{10/9}{10/11}$		Quiz 0.
23	$\frac{10/11}{10/13}$		
24	10/16		Quiz 7.
25	10/18		4
26	10/20		
27	10/23		Quiz 8.
28	10/25		•
29	10/27		
30	10/30		Quiz 9.
31	11/1		
32	11/3		Review.
33	11/6		Exam 2: Series and continuous functions.
34	11/8		
35	11/10		
36	11/13		Quiz 10.
37	11/15		
38	11/17		
9.0	11/19-25		Thanksgiving break – no classes
39	11/27		Quiz 11.
40	11/29		
41	12/1		O!- 10
42 43	$\frac{12/4}{12/6}$		Quiz 12.
43	$\frac{12/6}{12/8}$		Review
44	12/0		Treview

Final Exam: TBA