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	<b>Quiz 1.</b> Archimedean property. Denseness of $\mathbb{Q}$ in $\mathbb{R}$ . Symbols $\infty$ 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 a quotient. Squeeze Lemma (Ex. 8.5). Binomial Theorem (Ex. 1.12).
9	9/11	9	<b>Quiz 3.</b> Basis examples. Sequences diverging to $\infty$ and $-\infty$ .
10	9/13		Team Worksheet 1.
11	9/15	10	Monotone sequences.
12	9/18	10	Quiz 4. Lim inf and lim sup.
13	9/20	10	Cauchy sequences.
14	9/22	11	Subsequences. Bolzano - Weierstrass Theorem.
15	9/25	11	Quiz 5. Limits of subsequences.
16	9/27		Team Worksheet 2.
17	9/29		Review
18	10/2		Exam 1: Real numbers and sequences.
19	10/4	14	Series: definitions and examples. Decimals.
20	10/6	14	Cauchy Criterion. Absolute convergence. Comparison Test.
21	10/9	14	Quiz 6. Root Test and Ratio Test.
22	10/11	23, 15	Power series. Alternating Series Theorem.
23	10/13		Team Worksheet 3.
24	10/16	17	Quiz 7. Continuous functions. Two definitions of continuity
25	10/18	17	Examples of continuous and discontinuous functions.
26	10/20	17	Continuity of $kf$ , $ f $ , $f + g$ , $fg$ , $f/g$ , and $g \circ f$ .
27	10/23	18	Quiz 8. Properties of continuous functions.
28	10/25	19	Uniform continuity.
29	10/27	20	Limits of functions. (Notes.)
30	10/30		Quiz 9. More on limits and continuity. (Notes.)
31	11/1		Team Worksheet 4.
32	11/3		Review.
33	11/6		Exam 2: Series and continuous functions.
34	11/8	28	Derivative: definition and examples. Continuity and differentiability.
35	11/10	28	Sum, product, quotient, and chain rules.
36	11/13	29	Quiz 10. Zeros of the derivative. Mean Value Theorem.
37	11/15	29,18	Corollaries of the MVT. Inverse function and its derivative.
38	11/17		Linear approximation and Taylor polynomials. (Notes.)
	11/19-25		Thanksgiving break – no classes
39	11/27	32	Quiz 11. The Riemann Integral: Darboux construction.
_40	11/29	33, 32	Integrable functions. Riemann sums and Riemann integral.
41	12/1	33, 34	Properties of the integral. Fundamental Theorem of Calculus I.
42	12/4	34	Quiz 12. Fundamental Theorem of Calculus II.
43	12/6		Team Worksheet 5.
44	12/8		Review

Final Exam: Thursday, December 14, 8:00-9:50 a.m. in 135 Reber Building.