

TENTATIVE Calendar Fall 2017 Math 1500

(Topics listed are for MWF classes, and can be expected to vary from section to section. There may also be adjustments to this schedule during the course of the term, which will appear here.)

Lecture #

Week 1 Sept 7-8

1: Section 1.1 Functions

Week 2 Sept 11-15

First Labs

2: Section 1.1, 1.3 New functions from old

3: Section 1.3 finish; 1.4 review exponentials

4: Section 2.2 Intro limits

Week 3 Sept 18-22

Sept 20 Registration Deadline

Sept 22 Assignment #1

5: Section 2.3 Limit laws

6: Section 2.3, 2.5 Squeeze Theorem, continuity

7: Section 2.5, 2.6 Limits at infinity

Week 4 Sept 25-29

Quiz #1

8: Section 2.6, 2.7 Begin derivatives

9: Section 2.7 Derivatives, tangent lines, rates of change

10: Section 2.7, 2.8 The derivative function

Week 5 Oct 2-6

Oct 5, 6 Term Break; No Classes

11: Section 2.8 more examples, higher derivatives

12: Section 3.1 Differentiation rules, polynomial and exponential functions

Week 6 Oct 9-13

Oct 9 Thanksgiving; No Classes

Oct 13 Assignment #2

- 13: Section 3.2 Product and quotient rules
- 14: Section 3.3 Differentiating trig functions

Week 7 Oct 16-20

Quiz #2

- 15: Section 3.4 Chain rule
- 16: Section 3.5 Implicit differentiation
- 17: Section 3.5, 3.9 finish implicit differentiation; begin related rates

Week 8 Oct 23-27

Oct 27 Assignment #3

- 18: Section 3.9 Related rates
- 19: Catch up/review
- 20: Catch up/review

Week 9 Oct 30-Nov 3

Oct 31 MIDTERM

- 21: Section 1.5 Inverse functions and logarithms
- 22: Section 1.5, 3.6 Derivatives of inverse functions
- 23: Section 3.6 Derivatives of logarithm functions

Week 10 Nov 6-10

Quiz #3

- 24: Section 4.1 Maxima and minima
- 25: Section 4.1 (finish), 4.2 Mean value theorem (MVT)
- 26: Section 4.2, 4.3 MVT, First derivative test

Week 11 Nov 13-17

Nov 13 Remembrance Day; No Classes

Nov 17 VW Deadline

Nov 17 Assignment #4

- 27: Section 4.3 Second derivative test
- 28: Section 4.5 Curve sketching

Week 12 Nov 20-24

Quiz #4

- 29: Section 4.7 Optimization
- 30: Section 4.9 Antiderivatives
- 31: Section 4.9, 5.1 Antiderivatives and area

Week 13 Nov 27-Dec 1

Dec 1 Assignment #5

- 33: Section 5.1 Definite integrals and area
- 34: Section 5.2 Fundamental Theorem of Calculus (FTC)
- 35: Section 5.3 More on FTC

Week 14 Dec 4-8

Quiz #5

- 36: Section 5.3, 5.4 FTC and definite integrals
- 37: Section 5.4 Indefinite integrals
- 38: Review