

Math 231 Syllabus - Spring 2010

- Chapter 7 : Techniques of Integration (7 lectures)
 - 7.1 Review/ Integration by parts
 - 7.2 Trig Integrals
 - 7.3 Trig substitution
 - 7.4 Rational functions; partial fraction decomposition
 - 7.5 Integration strategies
 - 7.7 Approximate Integration
 - 7.8 Improper Integrals;
- Chapter 11 : Sequences and Series (12 lectures)
 - 11.1 Sequences
 - 11.2 Series (1.5 lectures)
 - 11.3 Integral test; comparison tests
 - 11.4 Alternating series
 - 11.5 Absolute convergence; ratio/root tests
 - 11.6 Power series
 - 11.7 Strategy for testing series
 - 11.8/9 Power series (2 Lectures)
 - 11.10/11 Taylor Polynomials/Taylor Series (3 lectures)
- Chapter 10 : Parametric equations and polar coordinates (6 lectures)
 - 10.1 Plane curves and parametric equations (1 lecture)
 - 10.2 Calculus and parametric equations (1 lecture)
 - 10.3 Polar coordinates (2 Lectures)
 - 10.4 Areas/Lengths in Polar Coordinates
 - 10.5 Conics (Optional)

Monday Lecture	Tuesday Section	Wednesday Lecture	Thursday Section	Weekend Reading Assign.
Jan 18	19 Chapter 5.5	20 Chapter 7.1	21 Quiz 1	Chapter 7.2,7.3
25 Chapter 7.2	26 Hw 1	27 Chapter 7.3	28 Quiz 2	Chapter 7.4,7.5
Feb 1 Chapter 7.4	2 HW 2	3 Chapter 7.5	4 Quiz 3	Chapter 7.7,7.8
8 Chapter 7.7	9 HW 3	10 Chapter 7.8	11 Quiz 4	Chapter 11.1, Review
15 Chapter 11.1	16 HW 4	17 EXAM 1	18	Chapter 11.2,11.3
22 Chapter 11.2	23 HW 5	24 Chapter 11.3	25 Quiz 5	Chapter 11.4,11.5
Mar 1 Chapter 11.4	2 HW 6	3 Chapter 11.5	4 Quiz 6	Chapter 11.6,11.7
8 Chapter 11.6	9 HW 7	10 Chapter 11.7	11 Quiz 7	Chapter 11.8, Review
15 Chapter 11.8	16 HW 8	17 Exam 2	18	
22 SPRING	23 BREAK	24 SPRING	25 BREAK	Chapter 11.9,11.10
29 Chapter 11.9	30 HW 9	31 Chapter 11.10	April 1 Quiz 8	Chapter 11.10,11.11
5 Chapter 11.10	6 HW 10	7 Chapter 11.11	8 Quiz 9	Chapter 10.1,10.2
12 Chapter 10.1	13 HW 11	14 Chapter 10.2	15 Quiz 10	Chapter 10.3,Review
19 Chapter 10.3	20 HW 12	21 Exam 3	22	Chapter 10.3,10.4
26 Chapter 10.3	27 HW 13	28 Chapter 10.4	29 Quiz 11	Review Semester
May 03 Instructors Choice/Review	04 HW 14	05 Instructors Choice/Review	06 Quiz 12	

Material Covered

Homework	Quiz	Chapter(s)
	Quiz 1	Chapter 5.5,7.1
Hw 1		Chapter 7.1
Hw 2	Quiz 2	Chapter 7.2,7.3
Hw 3	Quiz 3	Chapter 7.4,7.5
Hw 4	Quiz 4	Chapter 7.7,7.8
Hw 5	Quiz 5	Chapter 11.1
Hw 6	Quiz 6	Chapter 11.2,11.3
Hw 7	Quiz 7	Chapter 11.4,11.5
Hw 8		Chapter 11.6,11.7
	Quiz 8	Chapter 11.6-11.8
Hw 9		Chapter 11.8
Hw 10	Quiz 9	Chapter 11.9,11.10
Hw 11	Quiz 10	Chapter 11.10,11.11
Hw 12		Chapter 10.1,10.2
	Quiz 11	Chapter 10.1-10.3
Hw 13		Chapter 10.3
Hw 14	Quiz 12	Chapter 10.3,10.4

Notes:

- Homework due every Tuesday *at the start of section*.
- Quiz every Thursday *in section* except for exam weeks.
- Homework will cover previous weeks lectures.
- Quiz will typically cover material from previous weeks lecture and previous Tuesdays homework.