

MAT 212 Assignment List (Spring 2009)

- 4.8 (no lecture) 17, 19, 23, 25, 27, 31, 33, 35, 45, 49, 55, 65, 67, 73
- 5.1 (no lecture) 1, 5, 13, 15
- 5.2 (no lecture) 1, 3, 7, 13, 15, 19, 25
- 5.3 (review) 1–9 odd, 17
- 5.4 (review) 1–9 odd, 15, 19, 25, 31, 37, 41, 43; read 55
hand in 8, 14, 32
- 5.5 (review) 1–45 every other odd, 51, 53, 61
- 5.6 1, 5, 9, 13a, 17, 21, 31, 33, 37, 41, 49, 51, 71, 85; read 79, paragraph before 89
hand in 2a, 22, 34
- 8.7 3, 11, 27, 28a, 39, 41; read 33, 34, 47
- Test 1 (50 points; target date February 16)
- 10.5 5, 1, 3, 7–15 odd, 23, 27, 31, 33, 37, 49, 51, 53, 63; read 64
- 6.1 5, 11–21 odd, 25, 27, 31, 33, 35, 37, 49; read 53
hand in 14, 22, 36
- 6.2 1–17 odd, 29
- 6.3 1–13 odd, 17, 19, 21, 27
hand in 4, 8
- 6.4 1, 5, 7, 9, 13, 15, 17, 25; read 29
- 6.5 1, 9, 11, 13, 15, 17, 23, 33, 35; read 28
hand in 14, 34 (on 34 you may use your calculator to evaluate the integral)
- 6.6 1, 3, 7, 9, 15, 19, 27 (read 25 and 26 first), 35; read 37
- 6.7 1, 5, 7, 11, 13, 19, 21
- Test 2 (100 points; target date March 19)
- 7.1 1–6, 7, 13, 19–29 odd, 33, 41; read 52
- 7.2 3–23 odd, 29, 31, 37–55 odd, 59, 61, 63, 71
hand in 14, 30, 44
- 7.3 1, 3, 5, 11, 17–65 every other odd, 67; read 82
hand in 22, 52, 64
- 7.4 1, 5, 7, 11–51 every other odd, 57, 61, 65, 87abcd; read 92
hand in 22, 44, 62
- 7.5 7, 13, 15, 17, 21, 23, 27
- 7.6 TBA (covered partially or fully in lab)
- 7.7 1, 3, 17, 29, 37, 41, 43, 49–105 every other odd, 113, 117, 121, 139 (read 131 first),
147, 151; read 125
- 7.8 1, 5, 13–31 odd, 37, 41, 43, 45, 47, 51, 53, 55, 67, 80; read 79, 87

Test 3 (100 points; target date April 16)

8.1 1–41 every other odd, 43–55 odd, 57–81 every other odd, 83, 91
hand in 38, 44, 48

8.2 1–15 odd, 21, 23, 25, 29, 33, 37, 39; read paragraph after 42
hand in 6, 16

8.3 1–41 every other odd

8.4 1, 9, 11, 15, 19, 25, 33

8.5 1, 7, 9, 13, 15, 17, 21, 29, 33, 39, 43

8.6 TBA (covered partially or fully in lab)

8.8 1–9 odd, 15–43 every other odd, 67, 69, 74; read 66, 77

Test 4 (50–100 points; target date May 7 or 8)

Note: the material in chapter 9 is covered in MAT 314 Differential Equations (different textbook).

10.6 (covered partially or fully in lab) 17, 20, 21a, 22a, 23a, 24a, 33

10.7 (covered partially or fully in lab) 1, 2, 5, 9, 19, 21, 25, 27, 33; read 34 and paragraph before 37

10.8 13–16, 17, 21, 29–39 odd; 57b and 58 for three planets each; read 63a

If time allows, additional material from chapter 10 will be covered.

CUMULATIVE FINAL EXAM over all sections covered, 11:00 Wednesday, May 20.

Studying Mathematics

Studying mathematics is different from studying many of the other subjects. Some memorization is necessary, but concepts and skills are more important. Therefore, the study strategy employed by many students of doing little if anything until the night before a test and then cramming until the wee hours of the morning does not work very well for mathematics.

Mathematics is best learned slowly but consistently over time, not crammed into one night. Concepts and skills build upon one another. It is important to be prepared for each lecture; otherwise, you may not get anything out of that class period!

Recommendations include (1) read each section of the textbook before the lecture; (2) complete the assigned homework after the lecture over that material but before the next class period; and (3) get plenty of rest before a test so that your mind can think clearly.

Finally, don't forget that problem recognition skills are important. Look at the form of a problem, and its setting; learn how to recognize it.