Week 1

Thursday January 12
- Hand in Preview Assignment #1
- Before class, read Section 1.3 and Section 1.7
- Before the next class, complete the following Exercises:
  Section 1.3 – 3, 7, 8, 9, 19, 23, 37, 41, 42, 43
  Section 1.7 – 1, 5, 9, 26, 27, 28, 29, 32, 33 (review of matrix algebra)

Week 2

Tuesday January 17
- Hand in Preview Assignment #2.
- Before Class, read pages 1 – 5 in the Equivalence Relations handout. This is in the Textbook Supplements part of the Course Pack. (Or read through Example 3 in Section 1.6 of the text. We will discuss this and the rest of the handout in class.
- Before the next class, complete the following Exercises:
  Section 1.6 – 1, 7, 11, 15, 17, 23, 27, 29, 33, 35

Thursday January 19
- Hand in Preview Assignment #3.
- Before Class, read the first four pages in the handout whose title is “The Integers Modulo n.” This is in the Textbook Supplements part of the Course Pack.
- Discuss Preview Assignment #2 and do Coding Activity #2 in class.

Week 3

Tuesday January 24
- Before class, review the material in Section 2.1 through Example 2. Do not worry about the proof of the Division Algorithm.
- Hand in Preview Assignment #4.
- Before class, read the handout on Greatest Common Divisor (Section 8.1) through Example 8.2. This is in the Textbook Supplements part of the Course Pack.

Thursday January 26
- Hand in Preview Assignment #5
- Before the next class, complete the following Exercises:
  Section 2.1 – 23, 29, 30, 33, 37, 41, 43, 47, 49, 53, 54, 61
  Section 2.3 – 5, 7, 15, 24, 27, 29, 31, 32

Week 4

Tuesday January 31
- Review material to this point.
- In Class Preview Assignment and discussion of rings. Begin Section 3.1.
Thursday February 2
- In class, discuss Sections 3.1 and 3.2
- Before the next class, complete the following Exercises:
  Section 3.1 – 13, 15, 16, 17, 21, 27, 33, 38, 39, 41

Week 5
Tuesday February 7
- Hand in Preview Assignment #7
- In class, complete the discussion of Section 3.2 and begin the discussion of Section 3.3.
- Before the next class, complete the following exercises:
  Section 3.2 – 15, 21, 22, 34, 39, 40, 41, 43, 44, 45, 46, 49

Thursday February 9
- Hand in Preview Assignment #8
- In class, complete the discussion of Section 3.3 discuss Section 3.5.
- Before the next class, complete the following Exercises:
  Section 3.3 – 7, 8, 9, 13, 19, 21, 25, 30, 31, 32

Week 6
Tuesday February 14
- Hand in Preview Assignment #9.
- In class, discuss Section 3.5 and begin discussion of Section 3.4.
- Before the next class, complete the following Exercises:
  Section 3.5 – 1, 5, 10, 11, 13, 14, 16, 17, 25, 31, 31
  Section 3.4 – 2, 5, 6, 9

Thursday February 16
- Hand in Preview Assignment #10.
- In class, discuss Section 3.4
- Before the next class, complete the following Exercises:
  Section 3.4 – 10, 13, 15, 19, 25

Week 7
Tuesday February 21
- In class, discuss Section 3.4 and begin discussion of Section 4.1.
- Before the next class, complete the following Exercises:
  Section 3.4 – 27, 31, 33, 42, 45
  Section 4.1 – 1, 5, 11, 15, 22, 24
Thursday February 23

- Hand in Preview Assignment #11.
- In Class – Discuss Section 4.1 and begin discussion of Section 3.6.
- Before the class on March 2, complete the following Exercises:
  - Section 4.1 – 25, 26, 28, 35
  - Section 3.6 – 1, 3, 6, 13

Week 8

Tuesday February 28

- Test #1

Thursday March 2

- Hand in Preview Assignment #12.
- In Class – Discuss Section 3.6.
- Before the next class, complete the following Exercises:
  - Section 3.6 – 16, 19, 22, 23, 25, 26, 29, 30

Week 9

Tuesday March 14

- Meet in the computer lab. In class, discuss Section 3.6.
- Before the next class, complete the following Exercises:
  - Section 3.6 – 35, 39, 45, 50

Thursday March 16

- In Class – Discuss isomorphisms and homomorphisms

Week 10

Tuesday March 21

- In Class – Discuss Section 3.7
- Before the next class, complete the following Exercises:
  - Section 3.7 – 1, 3, 16, 17, 19, 21, 22

Thursday March 23

- Hand in Preview Assignment #13.
- In Class – Discuss Section 3.7 and Section 4.1
- Before the next class, complete the following Exercises:
  - Section 3.7 – 25, 31, 35, 37
  - Section 4.1 – 29, 31, 32, 36, 37
Week 11
Tuesday March 28
• In Class – Discuss Section 4.2
• Before the next class, complete the following Exercises:
  Section 4.2 – 1, 5, 13, 14, 17

Thursday March 30
• In Class – Discuss Section 4.2
• Before the next class, complete the following exercises:
  Section 4.2 – 27, 28, 30, 31, 32, 36

Week 12
Tuesday April 4
• Preview Assignment #14 due.
• In Class – Discuss Section 5.1
• Before the next class, complete the following exercises:
  Section 5.1 – 6, 7, 11, 15, 25, 28, 29

Thursday April 6
• In Class – Discuss Section 5.1
• Before the next class, complete the following exercises:
  Section 5.1 – 17, 23, 34, 37, 39, 40, 41, 43

Week 13
Tuesday April 11
• Preview Assignment #15 due.
• In Class – Discuss Section 5.2
• Before the next class, complete the following exercises:
  Section 5.2 – 1, 5, 9, 13, 25, 27, 28, 29

Thursday April 13
• Complete Preview Assignment #16
• In Class – Discuss Section 5.3
• Before the next class, complete the following exercises:
  Section 5.2 – 17, 20, 21, 35, 36, 37, 39
  Mistake in statement of Exercise 39: If \( p(x) \) and \( u(x) \) are relatively prime and \( p(x) \) divides \( u(x)v(x) \), then \( p(x) \) divides \( v(x) \).
  Section 5.3 – 1, 7, 9, 13, 15, 17, 33, 34, 35
Week 14
Tuesday April 18
- In Class – Discuss Sections 5.3 and 5.4
- Before the next class, complete the following exercises:
  Section 5.3 – 18, 19, 23, 27, 29, 32, 36, 37, 39, 45
  Section 5.4 – 3, 7, 13, 21, 23, 33

Thursday April 20
- In Class – Discuss Section 5.5
- Discuss the following exercises:
  Section 5.5 – 13, 17, 25, 31, 41, 47, 48