

Schedule

A week-by-week breakdown of the material.

Week 1 (09/02-09/06)

Mon Intro, CoCalc, start on divisibility¹

Wed More practice writing proofs

Fri Divisibility (1.1-1.6)²

Week 2 (09/09-09/13)

Mon Congruences (1.7-1.14)³

Wed Congruences and divisibility criteria (1.15-1.24)⁴

Fri Congruences and divisibility criteria continued (1.15-1.24)⁵

First programming assignment, due Wednesday. Look in `code/assignment1/sampleStartCode.sagews`.

Week 3 (09/16-09/20)

Mon Congruences and divisibility criteria continued (1.15-1.24)⁶

Wed The division algorithm and common divisors (1.25-1.34)⁷

Fri The division algorithm and common divisors (1.25-1.34)⁸

Week 4 (09/23-09/27)

Mon common divisors (1.29-1.34)⁹

Wed Euclidean algorithm and relatively prime numbers (1.35-1.45)

Fri Diophantine equations (1.46-1.58)

¹[notes/01_divisibility.html](#)

²[notes/02_more_divisibility.html](#)

³[notes/03_congruences.html](#)

⁴[notes/04_congruences_and_divisibility.html](#)

⁵[notes/04_congruences_and_divisibility.html](#)

⁶[notes/04_congruences_and_divisibility.html](#)

⁷[notes/05_division_algorithm.html](#)

⁸[notes/05_division_algorithm.html](#)

⁹[notes/05_division_algorithm.html](#)

Week 5 (09/30-10/04)

Mon Prime numbers and the fundamental theorem of arithmetic (2.1-2.11)

Wed Applications of the fundamental theorem (2.12-2.24)

Fri Exam 1¹⁰ (Chapter 1)

Week 6 (10/07-10/11)

Mon More prime divisibility and gcd properties (2.25-2.31)

Wed Infinitude of primes (2.32-2.39)

Fri Other facts about primes (2.41-2.44, 2.48)

Week 7 (10/14-10/18)

Mon FALL BREAK Wed

TBD

Fri TBD

Week 8 (10/21-10/25)

Mon TBD

Wed TBD

Fri TBD

Week 9 (10/28-11/01)

Mon TBD

Wed TBD

Fri TBD

Week 10 (11/04-11/08)

Mon TBD

Wed TBD

Fri Exam 2¹¹ (Chapter 2)

¹⁰[notes/midterm1_study_guide.html](#)

¹¹[notes/midterm2_study_guide.html](#)

Week 11 (11/11-11/15)

Mon TBD

Wed TBD

Fri TBD

Week 12 (11/18-11/22)

Mon TBD

Wed TBD

Fri TBD

Week 13 (11/25-11/29)

Mon TBD

Wed TBD

Fri TBD

Week 14 (12/02-12/06)

Mon Chapter 7 notes¹²

¹²[notes/chapter7.html](#)