

MATH 3220 (Discrete Structures II), Spring 2026, sections 201 and 202  
 Instructor: James Propp, Southwick 350I  
 File last modified January 31, 2026

You are expected to come to class prepared, that is, having read the assigned sections and having thought about the assigned problems; your section summaries are also due that day at the start of class. E.g., your summaries of sections 9.1 and 9.2 are due on 1/22 at either 11:00am if you're in section 201 or 12:30pm if you're in section 202.

| Lec.  | Date        | Sections to read*       | Videos to watch* | Exercises to think about   |
|-------|-------------|-------------------------|------------------|----------------------------|
| 1     | Tues, 1/20  | No assignment           |                  | None                       |
| 2     | Thurs, 1/22 | 9.1, 9.2, review.pdf    |                  | 9.1:6, 9.1:9(a), 9.2:3     |
| 3     | Tues, 1/27  | 9.3, 9.4, 9.6           | A.mp4            | 9.3:1, 9.4:2, 9.4:3, 9.6:3 |
| 4     | Thurs, 1/29 | 10.1, 10.2              |                  | 10.1:4(a), 10.2:4(a)       |
| 5     | Tues, 2/3   | 10.3, 10.4              |                  | 10.4:1(abc), 10.4:3(abc)   |
| 6     | Thurs, 2/5  | 11.1                    |                  | 11.1:3, 11.1:5             |
| 7     | Tues, 2/10  | REVIEW (Chs. 9-10)      |                  | Exam practice problems     |
| 8     | Thurs, 2/12 | <b>EXAM</b>             |                  |                            |
| ..... | Tues, 2/17  | NO CLASS                |                  |                            |
| 9     | Thurs, 2/19 | 11.2, mod.pdf           | B.mp4            | 11.2:3, 11.2:6, 11.2:8     |
| 10    | Tues, 2/24  | 11.3, star.pdf          |                  | 11.3:4                     |
| 11    | Thurs, 2/26 | 11.4, gcd.pdf           |                  | 11.4:4, 11.4:5             |
| 12    | Tues, 3/3   | 11.5                    |                  | 11.5:1, 11.5:2             |
| 13    | Thurs, 3/5  | 11.6 (skip Ex. 11.6.10) |                  | 11.6:1, 11.6:5, 11.6:6     |
| ..... | Tues, 3/10  | NO CLASS                |                  |                            |
| ..... | Thurs, 3/12 | NO CLASS                |                  |                            |
| 14    | Tues, 3/17  | 11.7, isomorphism.pdf   | C.mp4            | 11.7:1                     |
| 15    | Thurs, 3/19 | 11.7, order.pdf         |                  | 11.7:5, 11.7:10            |
| 16    | Tues, 3/24  | 13.1                    |                  | 13.1:1, 13.1:7             |
| 17    | Thurs, 3/26 | 13.2                    |                  | 13.2:2, 13.2:4             |
| 18    | Tues, 3/31  | Ch. 11                  |                  | Exam practice problems     |
| 19    | Thurs, 4/2  | <b>EXAM</b>             |                  |                            |
| 20    | Tues, 4/7   | 15.1, crt.pdf           | D.mp4            | 15.1:6(a), 15.1:9          |
| 21    | Thurs, 4/9  | 15.3                    |                  | 15.3:1, 15.3:2             |
| 22    | Tues, 4/14  | 15.3, homomorphism.pdf  |                  | 15.3:3, 15.3:4             |
| 23    | Thurs, 4/16 | 15.5.1                  |                  | 15.5:1                     |
| 24    | Tues, 4/21  | 15.5.2, 15.5.3          |                  | 15.5:3, 15.5:5, 15.5:7     |
| 25    | Thurs, 4/23 | Finite field codes      |                  |                            |
| 26    | Tues, 4/28  | REVIEW                  |                  | Practice problems 1-11     |
| 27    | Thurs, 4/30 | REVIEW                  |                  | Practice problems 12-21    |

\* All pdf and mp4 files are available from the Canvas page for the course.