

MATH. 594. ALGEBRA II . Winter 2003/04. Syllabus

Textbook: M. Artin, Algebra. Prentice Hall. 1991

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Office Hours: M:1-2, W:1-2, F: 3-4.

Weeks	Topic	Text	Problems
1-2	Groups	Ch.5, §§5-9 Ch.6, §1,2,3,4	5 (8,9), 6 (3,7), 7 (2,4); 8 (3,5,7); 9 (3,5,7), p.196(8) 1 (8,11,12,14), 2 (4,6), 3 (5,8); 4 (14,16,17)
3-4	Groups Linear groups	Ch.6, §§6,7,8 Ch. 8, §§1-4	6 (2,9,12), 7 (2,3), 8 (1,6,13) 1 (1,4,8); 2 (2,6), 3 (4,5), 4 (2,4)
5-6	Group representations	Ch.9, §§1-2,4-9	1 (4,9,10), 2 (4,7,8), 4 (3,5,6) 5 (6,8,10,13), 6 (3,9), 7 (2,5), 8 (4,6), 9 (1)
7-8	Field extensions	Ch.13, §§1-6,8	1 (4), 2 (1,3,5), 3 (2,6,7,11) 4 (4,5,11), 6 (7,13,10,15), 8 (1,2)
9-10	Galois theory	Ch.14, §§1,3,4, 5,8	1 (3,8,11,15,17), 3 (3,6), 4 (2,4) 5 (9,12), 7 (3,5), 8 (1,3,6,10),
11	Computations	Ch.14, §§2,6,9	2 (2,6), 6 (3,7,15,19), 9 (6,8)
12	Review		

Homework: collected biweekly.

Exams Midterm Exam (to be announced), Final Exam (as scheduled).

Grades: HW 40%, ME 25%, FE 35% (90-100% A+, 85-90% A, 80-85% A-, 75-80% B+, 70-75% B, 65-70% B-)