September 8, 2010

Algebra II

Schedule

Date	Title & Note	Assignments
September 8	Lecture 1. Introduction to Rings	Read 12, and do 5 exercises
September 10	Recitation Ex. 12 (Volunteers)	Review 12
September 13	Lecture 2. Integral Domain	Read 13, and do 5 exercises
September 15	Recitation Ex. 13 (Volunteers)	Review 13
September 17	Lecture 3. Ideals and Factor Rings	Read 14, and do 5 exercises
September 20	Recitation Ex. 14 (Volunteers)	Review 14, and do 5 exercises on p.276–279
September 22	Review of 12–14	Review 12–14 and T/F on p.276
September 24	Lecture 4. Ring Homomorphisms	Read 15 and do 5 exercises
September 27	Recitation Ex. 15 (Volunteers)	TBA
September 29	Review of Ring Homomorphisms	Review 15
October 1	Lecture 5. Polynomial Rings	Read 16, and do 5 exercises
October 4	Recitation Ex. 16 (Volunteers)	Review 16
October 6	Lecture 6. Factorization of Polynomials	Read 17, and do 5 exercises
October 8	Recitation Ex. 17 (Volunteers)	TBA
October 11	Review of Factorization of Polynomials	Review 17
October 13	Lecture 7. Divisibility in Integral Domain	Read 18, and do 5 exercises
October 15	Recitation Ex. 18 (Volunteers)	Review 18, and do 5 exercises on p.341–342
October 18	Review of 15–18	T/F on p.341, and read 19
October 20	Lecture 8. Extension Fields	Read 20, and do 5 exercises
October 22	Recitation Ex. 20 (Volunteers)	TBA
October 25	Review of Extension Fields	Review 20
October 27	Lecture 9. Algebraic Extensions	Read 21, and do 5 exercises
October 29	Recitation Ex. 21 (Volunteers)	Review 21, and Read 22
November 5	Lecture 10. Geometric Constructions	Read 23, and do 5 exercises
November 8	Recitation Ex. 23 (Volunteers)	Review 23, and do 5 exercises on p.399–400
November 10	Review	Preparation of Final Exam

All assignments are due next class.
Algebra II final will be given during the term exam week. The schedule above is subject to change.

Textbook for Algebra I and II Joseph A. Gallian, Contemporary Abstract Algebra – 7th Edition – International Version — Paper backs ISBN-13: 978-0-495-83153-2 574 pages + appendix 51 pages

Grading Policy Grade will be decided by the performance on the following: Home Work (40%), Class Participation by Solving Problems (20%), and Final Exam (40%).

Home Page http://subsite.icu.ac.jp/people/hsuzuki/science/class/algebra2/index-j.html
Schedule, references, old quizzes, old finals, old midterms and their solutions, and much more.
Author's Home Page: http://www.d.umn.edu/~jgallian/
Supporting documents, True/False Quizzes, software and much more.

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