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 12	Lecture 2. Integral Domains	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 19	Recitation Ex. 14 (Volunteers)	Review 14, and try 5 exercises* on p.276–279
September 22	Recitation Suppl. Ex. 12–14	Review 12–14 and T/F on p.276
September 24	Lecture 4. Ring Homomorphisms	Read 15 and do 5 exercises
September 26	Recitation Ex. 15 (Volunteers)	Review 15
September 29	Lecture 5. Polynomial Rings	Read 16, and do 5 exercises
October 1	Recitation Ex. 16 (Volunteers)	Review 16
October 3	Lecture 6-1. Factorization of Polynomials I	Read 17
October 6	*No Class Due To Tyhoon*	
October 8	*Lecture 6-2. Factorization of Polynomials II*	*Read 17, and do 5 exercises*
October 10	*Recitation Ex. 17 (Volunteers)*	*Review 17*
October 13	*Lecture 7-1. Divisibility in Integral Domains I*	*Read 18*
October 15	*Lecture 7-2. Divisibility in Integral Domains II*	*Read 18, and do 5 exercises*
October 17	*Recitation Ex. 18 (Volunteers)*	*Review 18, and do 5 exercises on p.341–342*
October 20	*Recitation Suppl. Ex. 15–18*	*T/F on p.341, read 19 and try 5 exercises**
October 22	Lecture 9-1. Extension Fields I	Read 20
October 24	Lecture 9-2. Extension Fields II	Read 20, and do 5 exercises
October 29	Recitation Ex. 20 (Volunteers)	Review 20
October 31	Lecture 10-1. Algebraic Extensions I	Read 21
November 5	Lecture 10-2. Algebraic Extensions II	Read 21, and do 5 exercises
November 7	Recitation Ex. 21 (Volunteers)	Review Sheet
November 10	Review	Preparation for 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.
   Moodle key: ALGEBRAII2014A
   Author's Home Page: http://www.d.umn.edu/~jgallian/
   Supporting documents, True/False Quizzes, software and much more.

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