

Math 114: A Second Course in Abstract Algebra

MWF 1-2, Room 71 Evans

Lecturer: Dr. Martin Olbermann

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Course Webpage: <http://math.berkeley.edu/~olber/114/index.html>

Textbook: Ian Stewart: Galois Theory, 2nd edition!

You can find a list of errata at

http://math.berkeley.edu/~gbergman/ug.hndts/m114_IStwrt_GT2_err.ps

Course outline: Galois theory - algebraic field extensions - solutions to polynomial equations. This uses plenty of the material you learnt in 113 - we will recall some of it. Some additional group theory will be necessary to understand the relation of field extensions to the solvability of polynomial equations. We will cover most of Stewart's book (and only skip chapter 6).

Homework:

will be assigned every week on Wednesdays and posted on the course website. Homework assignments are due the following Wednesday, in class. No late homework will be accepted. Proofs and explanations should be written using proper English grammar. You may discuss the problems with your classmates (I encourage you to do that!), but your written solutions must be your own. Don't forget to write your name and the course number (Math 114) in the right corner of the front page. Your lowest homework score will be discarded.

Exams:

Midterm 1: Feb. 20, in class. Midterm 2: Apr. 14, in class.

Final Exam: May 16, 12:30-3:30 pm.

Grading:

Homework 20%, Midterm 1: 20%, Midterm 2: 20 %, Final: 40 %.