

**MATH 312 ABSTRACT ALGEBRA I [A01] [CRN 12196] FALL
2014**

Instructor: Dr. Heath Emerson
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Lecture Hours: TWF 12:30-1:20 PM.
Location: Cornett Building B143
Office Hours: 1:30-12:30, Tuesdays and Fridays, or by appointment.

Textbook: Charles C. Pinter, *A Book of Abstract Algebra* (2nd edition).

Course Content: This course continues the material of Math 212 (formerly Math 233C). We will start with a review of group theory: the definition of group, examples of groups, group homomorphisms, subgroups, quotient groups and products of groups (up to approx. §16 in the text.) The main part of the course will be focused on ring theory – including quotient rings, rings connected with elementary number theory, and polynomial rings – and, as time permits, topics in field theory.

Homework/midterms: There will be 4 homework assignments due **Sept. 23, Oct. 17, Oct. 31 and Nov. 21**. No late assignments will be accepted for any reason except medical emergency, which requires a doctors' note. The assignments will be posted on the course webpage

[http : //www.math.uvic.ca/courses/2014f/math312/a01/index.html](http://www.math.uvic.ca/courses/2014f/math312/a01/index.html).

Assignments will be graded and will count toward your final grade (see *Evaluation* below.) There will be one midterm test on **October 15**.

Evaluation: Your cumulative grade on assignments will contribute 25 percent of your final grade, the midterm test will contribute 25 percent, and the final exam 50 percent. There will be no make-up tests. If you miss a test due to illness, accident or family affliction, you should notify me as soon as possible and provide a written request to be excused as well as supporting documentation. In such cases, your missing score will be replaced by the average of your cumulative score on assignments and your final exam score. If you have a question or concern about your mark on a test, you must bring it to my attention within 7 calendar days of the date it was returned to you. Students are strongly advised NOT to make final plans for travel or employment during the final examination period, since special arrangements will NOT be made for examinations that conflict with such plans.

UNDERGRADUATE LINK

You MUST READ the following information, which outlines the new University-wide grading table, academic integrity, attendance, calculators, Assistance Centre, and other important topics:

<http://www.uvic.ca/science/math-statistics/undergraduate/course-policies/index.php>