DEPARTMENT: Mathematics
COURSE NUMBER: 3330
NAME OF COURSE: Abstract Algebra
NAME OF INSTRUCTOR: Dr. Matthew O’Malley

The information contained in this class syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Learning Objectives
The student will be introduced to the ideas of mathematical proof and abstract reasoning in the setting of abstract algebra.

Major Assignments/Exams
Two full period tests----------200 points(100 points each).
Several turn-in homeworks------200 points.
Comprehensive final exam------200 points.

The Instructor reserves the right to give an additional test(100 points) and/or pop quizzes(10 points each). Attendance and effort will be considered for those students who are between grades.

Required Reading
TEXT: Abstract Algebra A First Course
2nd Edition
by
Dan Saracino

Copy of Text will be available at Book Store

Recommended Reading

List of discussion/lecture topics
COURSE SYLLABUS

The course will be an introduction to abstract algebra with the emphasis on groups. We expect to cover binary operations, groups, subgroups, cyclic groups, direct products of groups, symmetric groups, quotient groups, homomorphisms of groups, normal subgroups and the Fundamental Theorem of Group Homomorphisms. As time permits, we will study the concepts of a ring, integral domain, ideal and ring homomorphism.

In the text, we expect to cover Sections 1-14 and, as time permits, sections 16-18.

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (www.uh.edu/caps) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the "Let's Talk" program, a drop-in consultation service at convenient locations and hours around campus.
http://www.uh.edu/caps/outreach/lets_talk.html