

Math 313 – Modern Algebra
Fall 2011

Instructor – Dr. Fraboni

Office: PPHAC 221

Phone: x1605

mfraboni@moravian.edu

Office hours: Tue 10:30-11:30, Wed and Thu 1-2

Course Materials – The text for this course is *Abstract Algebra*, fifth edition, by Hillman and Alexanderson.

Course Goals – After successfully completing this course you will:

- understand and be able to work with the basic concepts and definitions in group and ring theory
- have improved your skills at writing and reading mathematical proofs
- be prepared for future study in the area of abstract algebra, or other higher level mathematics
- have some knowledge about applications of abstract algebra

Homework – Each day there will be reading and homework assigned. It is vital that you do all the homework problems assigned. For every hour in class you should expect to spend at least 2 hours doing work outside of class. You cannot learn mathematics without lots of practice!

Oral Presentation – Each student will prepare and present a topic related to modern algebra to the class. These presentations are scheduled for the last two weeks of the semester.

Exams – There will be two in-class exams and a cumulative final. The tentative dates for the in-class exams are 9/23 and 10/28. The final will be on Thursday Dec 15 at 1:30pm.

Attendance – Mandatory. Regular attendance is vital. A late assignment will be graded with a reduction of 10% for each day it is late. There will be no make-up quizzes given, and make-up exams are given only in extreme, pre-approved cases. If you must miss an exam it is your responsibility to contact me in advance. Students who are unable to attend class are responsible for all assignments and material covered in that class.

Grading – Grades will be the result of quizzes, homework, and two tests. The breakdown is as follows:

Homework – 25% total

Oral Presentation – 5%

In-Class Exams – 20% each

Final Exam – 30%

Disclaimers – This syllabus is subject to change through the semester. Any updates to the syllabus will be announced in class. The instructor reserves the right to apply qualitative judgment in determining final grades for the course.

Learning Disability Accommodations – Students who wish to request accommodations in this class for a disability should contact Mr. Joe Kempfer, Assistant Director of Learning Services for Disability Support, 1307 Main Street (extension 1510). Accommodations cannot be provided until authorization is received from the office of Learning Services.

Mathematics Department Academic Honesty Policy – The Mathematics Department supports and is governed by the Academic Honesty Policy of Moravian College as stated in the Moravian College Student Handbook. The following statements will help clarify the policies of members of the Mathematics Department faculty.

In all at-home assignments which are to be graded, you may use your class notes and any books or library sources. When you use the ideas or thoughts of others, however, you must acknowledge the source. You also may not use a solution manual or the help (orally or in written form) of any individual other than your instructor. If you receive help from anyone other than your instructor or if you fail to reference your sources, you will be violating the Academic Honesty Policy of Moravian College. You may work with your fellow students on homework which is not to be graded. You are responsible for understanding and being able to explain the solution of all assigned problems, both graded and un-graded.

All in-class or take-home tests and quizzes are to be completed by you alone without the aid of books, study sheets, or formula sheets unless specifically allowed by your instructor for a particular test.