MA 413 Fall Semester 2002

ALGEBRA I

INSTRUCTOR: Cornelius Pillen
ILB #314 (Enter through ILB #325)
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CLASS TIME: Tuesday and Thursday 6:00 PM – 7:15 PM in ILB 340.

OFFICE HOURS: M, W, F 10:00 AM – 12:00 Noon, and by appointment.

COURSE OBJECTIVE: The goal of this course is to familiarize the student with the fundamental concepts in group theory and to introduce rings and fields. Mathematical exposition is emphasized, and students are expected to construct a variety of proofs.

COURSE CONTENT: An introduction to group theory and ring theory. Topics include permutations and symmetries, subgroups, quotient groups, homomorphisms, as well as examples of rings, integral domains, and fields.

PREREQUISITES: MA 237 and one of the following MA 311, MA 320, MA 334.


COVERAGE: Chapters 1 – 11, Selected Topics from Chapters 12 – 14 and 24 – 27.

ATTENDANCE POLICY: It is the student’s responsibility to work through any course material covered during her/his absence.

HOMEWORK: Weekly homework assignments will be given.

GRADING: Two exams will be given during the term each counting for 15% of the final grade. The comprehensive final exam counts for 30%. The weekly homework assignments make up the remaining 40% of the final grade.

MAKE-UP EXAM: Make-up exams are given only with prior permission by the instructor.

FINAL EXAM: Thursday, December 5, 6:00 PM – 8:00 PM.

TUTORING LAB: The Department offers a Tutoring Lab in room ILB 456 to all students taking Mathematics and Statistics classes. There is no lab fee. Please check the bulletin board outside ILB 325 for details.

DISABILITY: If you have a specific disability that qualifies you for academic accommodations, please notify the instructor and provide certification from Disability Services (Office of Special Student Services). The Office of Special Students Services is directed by Ms. Bernita Pulmas and is located in the Student Center, Room 270, Phone 460-7212.

NOTE: Students will be notified in writing in case of changes to the syllabus.