MATH 622 ABSTRACT ALGEBRA II SPRING 2008

Syllabus

Instructor Dr. Jon-Lark Kim
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Office Hours: TR 3:30-5:00 and by appointment

Course Meetings TR, 1:00 - 2:15 PM, NS 317.


Prerequisites Math 521/522 or equivalent courses. Recommend Math 621 (Algebra I).

Course Content/Goal
In this course we will revisit the basics of Abstract Algebra, including rings, the Chinese remainder theorem, Euclidean domains, principal ideal domains, unique factorization domains, polynomial rings, field theory, the fundamental theorem of Galois theory, and finite fields.

Important Dates
Jan. 7 (Monday) : Last day of registration
Jan. 21 (Monday) : Martin Luther King Jr. holiday
Feb. 25 : Last day to withdraw
Mar. 10-16 : Spring break, no classes
April 21 : End of classes
April 25 : 2:30-5:00 PM : FINAL EXAM

Procedure Your final letter grade will be determined by your PROCEDURE: performance on 2 one-hour tests, pop quizzes and take-home quizzes, oral presentation, and a comprehensive Final Exam. The following is the percentage of each

Midterm Tests 40%
Quizzes/Homework 25%
Project/Presentation 5%
Final Exam 30%

Minimum letter grade will be assigned according to the following rule:

A = 90% or higher, B = 80% - 89%, C = 70% - 79%, D = 60% - 69%, F = 59% or less. There will be a plus/minus grade too.

Blackboard For your information, your scores and announcements will be regularly updated in BLACKBOARD (https://blackboard.louisville.edu/webapps/login/)

Homework A list of homework problems will be announced at the end of each section.

Quizzes There will be short quizzes sometime. NO MAKE-UP QUIZZES will be given.

Oral Presentation There will be an oral presentation during this course. A team of about three people will be assigned and each member will present his/her work. The problems/projects will be assigned ahead of time before the presentation.
Remarks 1. The instructor reserves the right to make changes in the syllabus when necessary to meet learning objectives, to compensate for missed classes, or for similar reason.

2. As for academic dishonesty policy, you must read the Section on Academic Policies and Procedures of the University of Louisville.

**TENTATIVE SCHEDULE, SPRING 2007**

Week 1 (1/7 - 1/11): Review, Sections 7.1, 7.2  
Week 2 (1/14 - 1/18): Sections 7.3, 7.4  
Week 3 (1/21 - 1/25): Sections 7.5, 7.6  
Week 4 (1/28 - 2/1): Sections 8.1, 8.2  
Week 5 (2/4 - 2/8): Sections 8.3  
Week 6 (2/11 - 2/15): Review, Exam I  
Week 7 (2/18 - 2/22): Sections 9.1, 9.2  
Week 8 (2/25 - 2/29): Sections 9.3, 9.4  
Week 9 (3/3 - 3/7): Sections 9.5, 13.1  
Week 10 (3/10 - 3/14): Spring break, no classes  
Week 12 (3/24 - 3/28): Sections 13.2, 13.4  
Week 13 (3/31 - 4/4): Sections 13.5, 13.6  
Week 15 (4/14 - 4/18): Presentation, Section 14.4  
Week 16 (4/21 - 4/25): Final Exam (tentatively 4/25, 2:30-5:00 PM), in classroom