Abstract Algebra I
Fall 2015

Course Instructor

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Office Hours: M 4-6, W 4-6, R 4-5

Learning Outcomes

This course is an introduction to the vast area of mathematics known as Algebra. This semester will focus on a small subset of topics from algebra, but will introduce students to the important themes of symmetry, transformation, and representation that underly the subject. By the end of this course a student will be able to understand and apply

- matrices
- permutations
- groups and the notion of symmetry
- linear transformations and operators
- linear groups.

Course Meeting Times

MWF 10-10:50
Jamrich 1320

Course Webpage

The course webpage will be on the NMU EduCat system, which can be accessed at https://educat.nmu.edu.

Textbook

Grading Scheme

Problem Sets (30%), Tests (35%), Final (35%)

Problem Sets and Tests

There will be 3 tests evenly spaced throughout the semester. There will also be problem sets posted to EduCat with evenly spaced due dates throughout the semester. These problem sets are the “backbone” of the class. We will sometimes devote entire classes to working together on the problem sets.

Advice

Learning is an active process, and it is critical that you be respectful of this process. I will be working very hard to make this class exciting, engaging and clear, but you will have responsibilities as well. It is very important that you attend every class. You need to be present and engaged. When learning math, you cannot simply sit back and let the information soak in; you must invest your time, little by little, struggling with concepts and problems, making mistakes, and then finding the solutions.

Accessibility

If you have a need for disability-related accommodations or services, please inform the Coordinator of Disability Services in the Dean of Students Office located in 2001 Hedgcock (906-227-1700). Reasonable and effective accommodations and services will be provided to students if requests are made in a timely manner, with appropriate documentation.

This syllabus is subject to change with notice.