MA 361 - Elementary Modern Algebra I
MWF 10:00am – 10:50am in CB 345

Instructor: Martha Yip
Email: martha.yip [at sign] uky.edu
Office: POT 775
Office hours: MWF 11:00–11:50am, or by appointment

Course Website: course announcements and supplementary lecture materials will be posted at:
http://ms.uky.edu/~myip/teaching/ma361.html

Email Policy: My preferred method for contact is by email. To ensure that your emails get answered promptly (within 24 hours) and not get caught in spam filters, please
- have the Course Number (MA 361) in the subject line,
- have your Name in the body of the email, and
- use your UK email account.

Course Description: A beginning course with particular emphasis on groups and rings.
Prerequisites: MA 261. Corequisites: MA 322.

Textbook: Gallian, Contemporary Abstract Algebra, 7th ed. or newer.

Student Learning Outcomes: Upon completion of this course, the student will be able to
- define and list examples of groups and rings,
- explain the Fundamental Theorem of Finite Abelian Groups,
- describe groups using generators and relations,
- identify some uses of groups and rings in modern life,
- read and write proofs in algebra.

Reading: A course calendar (subject to revision during the semester) is available through the course website. There, you can find out which sections in the textbook will be covered during each lecture. It is expected that you have read the relevant textbook sections before each lecture, so that the lecture will serve as a second chance for you to really solidify your understanding. As well, supplementary material not found in the textbook will be presented during lecture to complement your reading. Some students learn better by reading, and others by listening, but you should take advantage of both modes of learning.

Assignments: The schedule of homework assignments can be found on the course calendar. Homework is assigned periodically so you can hone your skills in presenting mathematical writing and prepare for the written exams. These will be collected at the end of class on each due date.

In order to be successful in this course, it is important that you make every effort to complete the assignments. Help is available during my office hours, but it is recommended that you attempt the homework on your own before seeking help. In addition, you are encouraged to discuss course material with your fellow classmates, but your submitted written work must be in your own words. If you decide to use other sources (eg. textbooks, papers, the internet) as reference, make sure that you reference every source properly.
**Examinations:** There are two in-class exams and one cumulative Final Exam:

- Exam 1: Friday February 12, in class
- Exam 2: Friday April 1, in class
- Final: Thursday May 5, 10:30am - 12:30pm

Electronic devices are not allowed during any tests or exams.

**Course Grading:** Your cumulative average is computed as follows:

\[
\text{40\% Homework, 15\% Test 1, 15\% Test 2, 30\% Final.}
\]

Your course grade will be determined by your cumulative average at the end of the semester and will be based on the following scale:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>≥ 90</td>
</tr>
<tr>
<td>B</td>
<td>≥ 80</td>
</tr>
<tr>
<td>C</td>
<td>≥ 70</td>
</tr>
<tr>
<td>D</td>
<td>≥ 60</td>
</tr>
<tr>
<td>E</td>
<td>&lt; 60</td>
</tr>
</tbody>
</table>

**Canvas** will be used as a grade server so that you can easily keep track of your grades.

**Attendance Policy:** You are expected to attend all lectures and to be an active participant.

Students are expected to withdraw from the class if more than 20% of the classes scheduled for the semester are missed per University policy.

If you miss a test due to an **excused absence**, the make-up test must be written within three working days of the originally scheduled test.

**Re-grades:** If a re-grade for a test is requested, I will carefully re-grade your entire test, and your total score may increase or decrease as a result of the re-grade.

**Academic Accommodations:** If you have a documented disability that requires academic accommodations, please see me as soon as possible. In order to receive accommodations in this course, you must provide me with a Letter of Accommodation from the Disability Resource Center (DRC, Multidisciplinary Science Building, Suite 407, 257-2754, drc@uky.edu) for coordination of campus disability services available to students with disabilities.

**Academic Integrity.** Academic honesty is fundamental to our community. Violations of academic integrity may result in suspension from the university. For details see [http://www.uky.edu/Ombud/ForStudents_AcademicIntegrity.php](http://www.uky.edu/Ombud/ForStudents_AcademicIntegrity.php).