

Syllabus for Math 457, Section 001, CRN 43360

Instructor: Dustin Cartwright

Office Location: Ayres 212

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Office Hours: Mon 2-3, W 10-11, and by appointment

Course Description: Introduction to groups and rings. This is the honors version of 455 and students should be fluent in writing proofs. We will cover subgroups, group homomorphisms, modular arithmetic, symmetry, Sylow theorems, cosets, ring homomorphisms, ideals, as well as examples of all of these.

Text: Algebra by Michael Artin, 2nd edition

Calculator Policy: Calculators are not needed and no calculators or other electronic devices are allowed during exams.

Attendance and Classroom Expectations: Attendance is required for all students. I expect you to show up for every lecture and in case of conflicting obligations, it is your responsibility to obtain the material and information you missed. In class, I expect you to be engaged and you should not be using your laptop, cell phone, or any other electronic devices.

Homework: Homework assignments will be posted on Blackboard and are due at the beginning of class every Tuesday. In case of sickness, athletic event, religious observance, family emergency, or a similar situation which prevents you from attending class, you may pass your homework on to another student or email me a scanned (not photographed) copy by the beginning of class. Homework which is not legible when printed with a black and white printer will not be accepted.

No late homework will be accepted, but I will drop the lowest homework score.

You are allowed and encouraged to discuss your homework assignments with other people in the class. However, you must write up your own solution independently of any other source and you must acknowledge your collaborators in your assignment.

Midterms: Sep. 22 and Oct. 27, in class

Make-up exams will only be given with a valid, documented excuse, which should be communicated to me as soon as possible.

Final: Dec. 4, 8-10am

Grades: 30% homework, 20% midterm I, 20% midterm II, 30% final

For each of these components, I will announce cut-offs for A/B/C/D/F letter grades along with the numerical grade. Your course numerical grade will be computed by averaging your scores on the components according to the above distribution and the cut-offs for your course letter grades will be determined by averaging the cut-offs for the components according to the same distribution.

[Campus Syllabus](#) (includes Disability Services info)