

Group Theory  
Syllabus for Mathematics 344/544 Winter 2013  
 Dr. Cheryl Beaver

MTRF 1-1:50 p.m. MNB 130

**FINAL EXAM: Monday, March 18 12-1:50 p.m.**

**Office:** MNB 123

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Time	Mon	Tue	Wed	Th	Fri
9:00					Office Hour
10:00		Office Hour			252 Lab
11:00	252	252	252		
12:00					
1:00	344	344		344	344
2:00				Office Hour	
3:00					
4:00	Office Hour		Office Hour		
5:00-6:50	494/595		494/595		

Please feel free to drop by my office during my office hours for help. You do not need to make an appointment to come to office hours. If you have direct scheduling conflicts with my office hours and would like further help, please let me know.

**Prerequisites:** Mathematics 280 and 341 with a grade of C- or better.

**Text:** *Contemporary Abstract Algebra, Seventh Edition* by Gallian.

**Course Content and Goals:** At the end of the term successful students will

- know basic definitions of group theory;
- know and utilize several examples of groups, including permutation groups;
- understand the group theory introduced in class and in the homework
- improve their proof writing and problem solving;
- increase their understanding and appreciation of abstraction in mathematics; and
- improve their writing and reading of mathematical proofs

**Homework:** Homework from the text and occasionally additional problems will be assigned and (selected problems) graded on a regular basis. Occasionally in-class work will be collected for grading.

Much of your learning will occur while doing the homework assignments. Please carefully read the book and schedule lots of time to work on the homework. It can be helpful to work in groups, but always depending on others to get your work done is a mistake. If you work with others, please cite them at the end of the assignment and never

directly copy another person's work. Proofs require some creativity. It is unlikely that two proofs of the same problem will look exactly alike. You should understand and write up your own solution to each problem in your own words.

**Quizzes:** Quizzes may be given on an as-needed basis. Quizzes will be considered in-class work and count toward your homework grade.

**Exams:** There will be two midterm exams and a final exam. Exams are *tentatively* scheduled for 2/8 and 3/8. Missed exams may not be made up except in rare cases with prior notification and instructor approval. Cell phones must be turned off during exams.

**MTH 544 Students only:** Students enrolled in this class as MTH 544 will have additional homework and exam problems. They will also be responsible for a project and presentation to the class. More details will be provided.

**Late homework:** Homework is due by 4:30 pm on its due date. If you are not done with all of your homework by 4:30 on its due date, please turn in what you have done for partial credit as LATE HOMEWORK IS NOT ACCEPTED. Your lowest homework score will be dropped. In-class work may not be made up.

**Grades:** Grades will be based on the following:

MTH 344: Homework: 40%	2 Midterms: 20% each	Final: 20%	
MTH 544: Homework: 30%	Project: 10%	2 Midterms: 20% each	Final: 20%

**Appropriate Classroom Behavior:** You are ultimately responsible for your own attendance and performance. Disruptive classroom behavior of any kind is not appropriate. Proscribed Conduct for all students is described in the University Catalog. Any student found cheating on an exam or copying from another student's exam paper will receive a zero score on that exam.

**Learning Disabilities:** If you have a documented learning disability, please talk to me during the first few days of class, I will be more than happy to accommodate you in any way that I can. If you have a documented disability which requires any academic accommodations, you must go to the Office of Disability Services (ODS) for appropriate coordination of your accommodations. You can drop by APSC 405 or contact ODS at (503) 838-8250 (V,TTY) to schedule an appointment.

**Incomplete Policy:** An Incomplete can only be granted for a student who is passing a class and has a documented emergency that prevents them from completing the course.

**Veterans and Active Military Personnel** with special circumstances are welcome and encouraged to communicate these, in advance if possible, to the instructor.

**Cell Phone Policy<sup>1</sup>:** TURN THEM OFF AND PUT THEM AWAY!! NO TEXTING DURING CLASS!

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<sup>1</sup> If you are in an emergency situation in which you need to have your cell phone on quiet; please speak to me about it before class.