Instructor: Eric Moorhouse, Ross Hall 63 = 216, phone 766-4394, email: moorhous@uwyo.edu, web: http://www.uwyo.edu/moorhouse/

Meets: MWF 9:00–9:50 am, STEM 155

Prerequisites: Grade of C or better in Math 3500 (Algebra I).

Office Hours: STEM lobby: MWF 8–8:50 am. Also in my office (RH 216): M 2:30–3:50 pm, R 1:30–3:30 pm (subject to change; for current office hours and exceptions see http://www.uwyo.edu/moorhouse/schedule.html). In addition to my regularly scheduled office hours, please feel free to come by at other times. If my door is open and I am not otherwise engaged, I am happy to visit with you.


Grading Scheme:

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<thead>
<tr>
<th>Percentage</th>
<th>Component</th>
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<tbody>
<tr>
<td>10%</td>
<td>Participation</td>
</tr>
<tr>
<td>25%</td>
<td>Homework</td>
</tr>
<tr>
<td>20%</td>
<td>Test 1</td>
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<tr>
<td>20%</td>
<td>Test 2</td>
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<tr>
<td>25%</td>
<td>Final Exam</td>
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I will assign grades (A, A−, B+, B, B−, C+, C, D, F, W) at the end of the semester according to the scale: A=exceptional, B=very good, C=adequate, D=poor, F=fail, W=withdrawal. I always encourage students to consult me at any time during the semester with questions, including (but not restricted to) questions about your progress in the course. You may ask questions by email, at your own risk (remember that email is not secure); but questions asked in person typically receive more prompt and complete answers.

Participation: The participation component of the grade will be based on your regular attendance timely arrival for class sessions, in addition to participation during class, including asking and answering questions and evident engagement in class activity.
Homework:

Homework is the most vital part of this course. Mathematics, more than most subjects, is one which you learn not by listening and absorbing, but by trying out yourself. The learning of mathematics is also more sequential than that of other subjects ... so all the more need to be regular in doing problems yourself! Homework assignments will be assigned approximately once per week, and will be submitted to me on the specified due date (usually after 2–3 classes), at the end of class. The following expectations apply to submitted homework:

- Multiple pages should be *stapled* together.
- Write clearly. Part of the grade reflects organization and clarity of presentation. Tablet paper is better than pages ripped from spiral-bound notebooks (I will trim off the if I see it). The back side of printed paper (e.g. from a recycling bin) is fine.
- Most solutions require sentence answers. Correct use of vocabulary, spelling, grammar, and punctuation is expected for full credit.
- If you must submit homework outside of class time, either slide it under my office door, or ask the Math Department secretary to put it in my mailbox. *Never leave ungraded homework outside my door, as this is insecure.*
- Always remember to put your name, the class (Math 4510), and the assignment number (e.g. HW1, HW2, etc.). There is no need to re-write questions.

It is fine for you to discuss the homework with other students. However, please do not copy anyone else's work directly. Copying may adversely affect your grade; but more importantly, of course, you won't be adequately preparing yourself for the tests in this way.

Tests:

We will have two 50-minute test during class time, and one final exam, all of which are ‘closed book’; however, you will be permitted to use a handheld calculator and one ‘cheat sheet’ (one 8½×11 inch sheet with information written on one side in your own handwriting). Sharing of calculators or other aids during tests and the exam, is not permitted. No other devices are permitted. Cell phones must be switched off (and in particular cannot be used as calculators). The two tests will each cover a specified unit of material only, but the final exam will be comprehensive. The final exam is *tentatively* scheduled for 8:00–10:00am on Monday, May 8, 2017, in our usual lecture room (STEM 155).

Make-up tests for those who miss tests, will only be granted in cases of verifiable illness or the most extreme circumstances (at my discretion). Please contact me in advance of such a situation if possible, or leave a message with the Math Department (766-4221). Even in legitimate cases, the make-up test will be harder than the original test.
MATH 4510 Website:

Course-related announcements, links and handouts will be posted at http://www.uwyo.edu/moorhouse/courses/4510/. Please bookmark this site and check it regularly. For grades (and perhaps the occasional document which requires security), check the WyoCourses site rather than the official course website.

The Algebra Sequence (Math 3500/4510/4520):

Math 4510 (Algebra II: Introduction to Groups) is the second in a three-course algebra sequence that begins with Math 3500 (Algebra I: Introduction to Groups) and continues with Math 4520 (Algebra III: Topics in Abstract Algebra). These courses cover (roughly) the theory of rings, groups and fields, respectively—the three classes of algebraic structures which form the cornerstone of modern algebra. The student is assumed to arrive at this point (the second course in the sequence) with a ready foundation in formal mathematical thinking and communication, including the reading and writing of proofs.

Course Content:

Topics from the theory of groups are covered include Chapters 7, 8 and 9 of the textbook. Additional resources will be made available as the course progresses.

Students with Disabilities: If you have a physical, learning or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with, and provide documentation of your disability, to the University Disability Support Services (UDSS) in SEO, Knight Hall 330, phone 766-6189.

Appropriate Conduct: For issues of academic honesty/dishonesty, classroom deportment, etc., we refer to

- UW Student Code of Conduct (UW Dean of Students)
- Students & Teachers Working Together (UW College of Arts & Sciences)

Links to both documents appear on our course website.