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Spring 2-1-2022

### M 522.01:Topics in Graduate Algebra - Advanced Algebra II

Kelly L. McKinnie

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<b>Instructor:</b>	Kelly McKinnie	<b>Time:</b>	MWF 1:00 - 1:50
<b>Office:</b>	111 Math Bldg.	<b>Classroom:</b>	108 Math Bldg.
<b>Email:</b>	kelly.mckinnie@umontana.edu	<b>Office Hours:</b>	2 - 3 MWF and by appt.
<b>Phone:</b>	x5694		(on zoom)

**Course Overview:** The main goal of this course is to introduce the basic theory of rings and modules. We will start with understanding the different classes of rings (PIDs, UFDs, etc) and move into the theory of modules.

**Textbook:** We will follow Dummit and Foote's Abstract Algebra Book. The course will focus on parts II and III and some of part V.

**Prerequisites:** M 521 or consent of instructor. Please see me if you have questions.

**Student Responsibilities:**

1. **Attendance.**
2. **Homework.** Homework will be assigned and collected weekly. Not all problems will be graded. I am happy to discuss problems during office hours. You are encouraged to work together. Do not use the full open web on your homework - most likely you can find "solutions" online which will defeat the purpose of the HW. As always, the words you submit should be your own. Part of the rubric for grading will be whether or not solutions are written in an easy to follow fashion.

**Grades:** Grades will be based on homework.

**Academic Honesty:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University.

**Student Conduct Code:** All students need to be familiar with the Student Conduct Code. You can find it online. Discrimination and harassment are not tolerated at the University of Montana. If you feel that you have been subjected to discriminatory or harassing behavior, please contact the Office of Equal Opportunity and Affirmative Action at 243-5710 or visit this [link](#) for help in addressing the situation. You can also report the discrimination or harassment to me or to another faculty member you trust.

**Disability Modifications:** The University of Montana assures equal access to instruction through collaboration between students with disabilities, instructors, and the Office for Disability Equity (ODE). If you anticipate or experience barriers based on disability, please

contact the ODE at: (406) 243-2243, ode@umontana.edu, or visit the ODE webpage for more information. Retroactive accommodation requests will not be honored, so please, do not delay. As your instructor, I will work with you and the ODE to implement an effective accommodation, and you are welcome to contact me privately if you wish.

### **COVID Mitigation Measures**

- Mask use is required within the classroom.
- If you feel sick and/or are exhibiting COVID-19 symptoms, please don't come to class and contact the Curry Health Center at (406) 243-4330.
- If you are required to isolate or quarantine, you will receive support in the class to ensure continued academic progress. In this case the attendance requirement will be waived for the duration of the isolation/quarantine and all lectures will be recorded and available on the Moodle page.
- UM recommends students get the COVID-19 vaccine. Please direct your questions or concerns about vaccines to Curry Health Center.
- Classroom windows will be open whenever possible. Bring a sweater if needed.
- Class attendance and seating will be recorded to support contact tracing efforts. Please consistently sit in the same seat.
- Drinking liquids and eating food is discouraged within the classroom.
- Please note this class may be recorded.