

## MATH 326: Abstract Algebra II - Dr. Miller - Course Info SUMMARY - Fall 2017

**Meeting Times/Place:** MW 3:00-4:15 in room VSC 202

**Homework will be due on FRIDAYS in my mailbox (or email if desperate) by 4pm.**

**Content:** A continuation of MATH 325, this course covers the theory of rings and related objects.

**Prerequisites:** Passing grade in MATH 325 - Abstract Algebra I

**Follow-Ups:** You can use MATH 325-326 as one of your required math major sequences.

**Texts:** *A First Course in Abstract Algebra* by Fraleigh (7th edition, the Spring 2017 MATH 325 text)

**Contact:** Email: lyn.miller@sru.edu - Phone: 724-738-2878 - Web: granite.sru.edu/~lmiller (not D2L)

**Office Hours:** Room VSC 200B - Drop-in hours will be posted - also by appointment.

### **Classroom environment:**

- **I CANNOT ALLOW FOOD/DRINKS** in the classroom due to SRU-documented disability.
- See me if this restriction conflicts with your own documented accommodations.

**Grading:**  $A = 90 - 100\%$ ;  $B = 80 - 89\%$ ;  $C = 70 - 79\%$ ;  $D = 60 - 69\%$ ;  $F = 0 - 59\%$ .

- Course total = 550 points: HW Score = 100 pts, Exams 1-3 = 100 pts each, Final = 150 pts
- I don't give attendance or "effort" points, but there may be extra credit opportunities.
- Students with SRU-documented test or quiz accommodations should notify me ASAP.

**HW:** Worth 100 points total: lowest few will be dropped at end of semester

- HW is due on FRIDAYS by 4pm in my mailbox (for more consistent learning and better feedback).
- I typically drop 10-15% of your scores: the exact number  $N$  will be announced in December.
- Make-up HW? Typically none, nor any late. I drop your lowest  $N$  scores to allow for a few missed.
- (This is like earning personal days at work; you can miss 1-2 without penalty, but choose wisely.)

**Mid-Term Exams:** Worth 300 points total: 100 each for Exam #1, #2, #3, no collaboration

- Topics List will be provided in advance. Study thoroughly, based on that List.
- Answers without work do not earn full credit. When asked, you must write rigorous proofs.
- Justifications/work are graded on correct MATH knowledge, notation, reasoning, and style.
- Make-up exam approval requires prior notification, and documentation. The Final is your make-up.
- On exams you may ONLY use the built-in computer calculator, for uniform fairness.
- Tentative dates: Sept.  $27 \pm 2$  days, Oct.  $30 \pm 2$  days, Nov.  $28 \pm 2$  days
- Students with SRU-documented disabilities must submit exam paperwork one week in advance.

**Final Exam:** cumulative, worth 150 points total, no collaboration

- You MUST take the Final at the scheduled time: FRIDAY, Dec. 15, 1:00-3:00 pm
- Students with SRU-documented disabilities must submit exam paperwork one week in advance.

**Attendance:** A sign-in sheet circulates daily, but attendance does NOT count toward your grade.

- If you are absent, YOU must make arrangements to catch up BEFORE the next class.
- Assignments and announcements are available via my web page [granite.sru.edu/~lmiller](http://granite.sru.edu/~lmiller).

Slippery Rock University  
Department of Mathematics  
Student Outcomes - Math 326  
Abstract Algebra II

**Students will demonstrate an understanding of and ability to prove theorems about the following topics:**

1. Rings
2. Integral Domains, ordered Integral Domains
3. Fields
4. Characteristic of a Ring
5. Ideals, Quotient Rings
6. Ring Homomorphisms
7. Polynomials over a Ring

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**Important University-wide policy statement on sexual violence:**

The University requires the following statement to be included in all course syllabi. As future teachers of minor-aged children, you will appreciate the importance of protecting them from harm inflicted by adults. The statement below specifically outlines the University's stance toward sexual violence directed toward minors:

“Slippery Rock University and its faculty are committed to assuring a safe and productive educational environment for all students. In order to meet this commitment and to comply with Title IX of the Education Amendments of 1972 and guidance from the Office for Civil Rights, the University requires faculty members to report incidents of sexual violence shared by students to the University's Title IX Coordinator. The only exceptions to the faculty member's reporting obligation are when incidents of sexual violence are communicated by a student during a classroom discussion, in a writing assignment for a class, or as part of a University-approved research project. Faculty members are obligated to report sexual violence or any other abuse of a student who was, or is, a child (a person under 18 years of age) when the abuse allegedly occurred to the person designated in the University protection of minors policy. Information regarding the reporting of sexual violence and the resources that are available to victims of sexual violence is set forth at: <http://www.sru.edu/offices/diversity-and-equal-opportunity/sexual-misconduct-and-victim-resources>. ”