

Instructor:
Time:
Location:
E-mail:
Office:
Walk-in office hours:
Class webpage:
Textbook:
Course Description:
FREE math tutoring:
Calculator policy:
Attendance policy:

## Homework:

Late homework:
Presentations:

Quizzes:
Exams:
Final exam:

Dr. Tom Cuchta
5:00-6:15 MW
SH 509
cuchta@marshall.edu
SH 721
See my website http://tomcuchta.com. They may change throughout the semester without notice. Alternate office hours may always be scheduled via e-mail.
https://tomcuchta.com/teach/classes/2023/MTH450.550-Fall2023-Marshall/
"First Course in Abstract Algebra" 7th edition by Fraleigh ISBN: 9780201763904
Structure of the abstract mathematical systems; groups, rings, fields, with illustrations and applications from number theory.
Virtual and drop-in tutoring (SH625) are offered by the math department:
https://www.marshall.edu/math/tutoring/
Calculators will not be permitted on exams.
Every class meeting should be attended by the student in its entirety, but attendance itself will not be recorded for a grade. If a class is missed, it is the student's responsibility to find out what was missed.
Homework will be assigned weekly and due on Wednesdays. Graduate students may be assigned more homework than undergraduate students.
Homework may be submitted late for a penalty.
( 550 only!!)Students enrolled in a graduate section of the course will be asked to present solutions to homework problems and material from the text to the class semi-regularly. Each presentation will be scored by the instructor using a presentation rubric. Followup work (including presenting again) may be assigned to improve the presentation score on a given presentation.

Make-up exam policy: If an exam is to be missed due to an excused absence (defined as in this page), then it is the student's responsibility to arrange an alternative time to take the exam at least one week before the exam is given. If the student misses an exam due to an unexcused absence, the exam may be replaced with the percentage earned on the final exam. The unexcused absence policy applies only once.
University policies: Various university policies such as Academic Dishonesty, Academic Dismissal, Academic Forgiveness, Academic Probation \& Suspension, Affirmative Action, PreFinals Week, D/F Repeat Rule, Excused Absence, Inclement Weather, Sexual Harassment, Students with Disabilities, and University Computing Services Acceptable Use can be found at the Marshall University academic affairs webpage here: https://www.marshall.edu/academic-affairs/policies/

| Category | MTH 450 | MTH 550 |
| :--- | :--- | :--- |
| Homework | $30 \%$ | $20 \%$ |
| Quizzes | $20 \%$ | $15 \%$ |
| Presentations | $0 \%$ | $15 \%$ |
| Hour exams | $30 \%$ | $30 \%$ |
| Final exam | $20 \%$ | $20 \%$ |
| Grade | Percentage Range |  |
| A | $90 \% \leq$ Points Earned $\leq 100 \%$ |  |
| B | $80 \leq$ Points Earned $<90$ |  |
| C | $70 \leq$ Points Earned $<80$ |  |
| D | $60 \leq$ Points Earned $<70$ |  |
| F | $0 \leq$ Points Earned $<60$ |  |

## Modern Algebra I Calendar Fall 2023

| Week | Sections |
| :---: | :---: |
| 21 Aug - 25 Aug |  |
| 28 Aug - 1 Sep |  |
| 4 Sep - 8 Sep | 4 September - NO CLASS - LABOR DAY |
| $11 \mathrm{Sep}-15 \mathrm{Sep}$ |  |
| 18 Sep - 22 Sep | EXAM 1-20 September |
| $25 \mathrm{Sep}-29 \mathrm{Sep}$ |  |
| 2 Oct - 6 Oct |  |
| 9 Oct - 13 Oct |  |
| 16 Oct - 20 Oct | EXAM 2-18 October |
| 23 Oct - 27 Oct |  |
| 30 Oct - 3 Nov |  |
| 6 Nov - 10 Nov |  |
| 13 Nov - 17 Nov | EXAM 3-15 November |
| 20 Nov - 24 Nov | THANKSGIVING BREAK |
| 27 Nov - 1 Dec | PRE-FINALS WEEK <br> 1 December - last day of class |
| $4 \mathrm{Dec}-8 \mathrm{Dec}$ | FINALS WEEK |

## Course outcomes

| Course outcomes | Assessment |
| :--- | :--- |
| Students will be able to use definitions and theorems to <br> write proofs of results in modern algebra. | Exam |
| Students will be able to create examples and counterex- <br> amples for algebraic structures. | Exam |
| Students will be able to read and apply theorems. | Exam |

