

Dr. Charles Rocca
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MAT 512 - 71: Modern Algebra I
 M: 5:25-7:55 in HA 204

Office Hours:

MW: 2pm to 3pm & M: 4pm to 5pm
 TR: 12pm to 1pm

Course Materials:

Textbook: “Abstract Algebra, 3rd ed.” by I.N. Herstein

Course Content:

Chapter	Sections
1	Read all on your own
2	1-10 (try to read 2.11 on your own)
3	All
4	1-6
5	1-5
6	7
Handouts	

Course Calendar:

MONDAY	MONDAY
8/29 1 Intro, Syllabus, Intro to Algebraic Structures	10/24 8 §4.4-4.6, Irreducibility
9/5 Labor Day - No Class	10/31 9 Irreducibility vs. Primality
9/12 2 §2.1-2.4, Lagrange’s Theorem	11/7 10 <i>Ring Theory Exam</i>
9/19 3 §2.5-2.8, Cauchy’s Theorem	11/14 11 §5.1 & 5.2
9/26 4 §2.9 & 2.10, F.T. of Finite Abelian Groups	11/21 12 §5.3 - 5.6
10/3 5 §3.1-3.3, Symmetric Groups	11/28 13 §F.T. of Algebra
10/10 6 <i>Group Theory Exam</i>	12/5 14 Constructible/Irrational/Transcendental
10/17 7 §4.1-4.3, Homomorphism Theorems	12/12 15 <i>Field Theory Exam</i>

Grading:

3 Unit Exams	60% (20% each)
16-20 (or so) Text Problems	40%

Classroom Policies:

Assignment Guidelines: Out of class assignments should always look *neat, legible, and professional; they must be written on loose leaf college ruled paper or be typed*. Messy work, work on crumpled papers, or on paper torn from a notebook with “frillies” may be rejected and counted as late. Whenever appropriate answers on all assignments should be given in *complete sentences*. I will almost always accept late work. An assignment is considered late after I have handed it back or gone over it in class. Late assignments will receive at most 75% credit.

Exam Makeup Policy: To qualify for a makeup exam you must present evidence of a valid reason for missing the exam and, if at all possible, contact me ahead of time to make arrangements for the makeup. If you do not present a valid reason, do not give prior notice when possible, or simply do not show up for an exam, you are not entitled to a makeup and will not be given one. Finally, if you fail to show up for your makeup exam at the agreed upon time you will not be given a second opportunity under any circumstances.

Time on Task: Please note that for all your classes you should be spending at least 2 hours working outside of the class for every 1 hour in the class. In particular *for this class you should be doing 6 hours of work a week not including class time*. Note that this is an average, if you are weak in the subject or under prepared you will need to spend more time on the class.

Attendance: There is no specific policy for attendance in this course. However, you will be much more successful if you attend.

Academic Honesty: If on any assignment, quiz, or exam you turn in someone else’s work as if it were your own you will receive a zero on that assignment, quiz, or exam. If you are caught doing this three times you will receive an F in the course and the Dean will be informed of your academic dishonesty.

(WCSU Honesty Policy: <http://www.wcsu.edu/facultystaff/handbook/forms/honesty-policy.pdf>)

Accommodations: If you have need of an accommodation for testing or note taking, please visit AccessAbility Services, located in Higgins Annex 017 (<http://www.wcsu.edu/accessability>). They will give you an accommodation letter which you must bring to me as soon as possible.