

Alexandre Turull
Department of Mathematics

College of Liberal Arts and
Sciences

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Algebra Seminar

f21-mas4301-syllabus

MAS 4301 Abstract Algebra 1

Fall 2021

Class number	Period	Meeting Time	Room
15428	MWF 5th	11:45 – 12:35	AND 019

Professor Alexandre Turull

480 Little Hall
(352) 392-0281 ext 243
turull@ufl.edu

Office Hours

Monday	Tuesday	Wednesday	Thursday	Friday
10:40 – 11:30		10:40 – 11:30		10:40 – 11:30

Also by appointment

- [Calendar](#) — Lecture topics and their approximate dates.
- [Homework Problems](#) — List of homework assignments.

Prerequisites:

MAS 4105 (Linear Algebra) with a C or better, or MAS 3300 (Numbers and Polynomials) with a B or better, or MHF 3202 (Sets and Logic) with a B or better is required.

Textbook:

Contemporary Abstract Algebra, by Joseph Gallian, ninth edition

Content:

We will cover most of Chapters 0 – 11, plus additional material. This covers group theory: groups, subgroups, permutations, factor groups and homomorphisms. If time permits, we will also have an introduction to rings and fields (Chapters 12, 13).

A major emphasis will be on writing mathematics precisely and clearly. Proofs will be an important part of this course.

The catalogue's description of this course is: Sets and mappings, groups and subgroups, homomorphisms and isomorphisms, permutations, rings and domains, arithmetic properties of domains, fields. This course requires facility in writing proofs.

Format:

Lectures. Reading and homework will be assigned and discussed in class. **You are expected to participate in classroom discussions.**

Homework will be assigned regularly and discussed in class.
Homework will not be graded. There will be frequent quizzes.

Tests:

There will be four 60-point tests and a cumulative final. The dates of these are given in the course calendar.

Quizzes:

There will be frequent quizzes.

Final grade:

4 tests	240
final	100
quizzes	60
Total	400

A \geq 360	C \geq 280
A- \geq 346	C- \geq 266
B+ \geq 333	D+ \geq 253
B \geq 320	D \geq 240
B- \geq 306	D- \geq 226
C+ \geq 293	E < 226

Students with disabilities

Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <http://www.dso.ufl.edu/drc/>) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

Attendance policy

Students are expected to attend class regularly.

The UF policy on attendance is here:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Honor Code

UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honor and integrity by abiding by the Honor Code.”

On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: “On my honor, I have neither given nor received unauthorized aid in doing this assignment.”

The Honor Code (<http://www.dso.ufl.edu/seccr/process/student-conduct-honor-code/>) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obliged to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor of this class.

Website:

<https://people.clas.ufl.edu/turull/f21-mas4301-syllabus>



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