

# MAS 4301 Abstract Algebra 1

## Spring 2014

Section	Period	Meeting Time	Room
075A	MWF 5th	11:45 – 12:35	LIT 207

### Professor Alexandre Turull

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

### Office Hours

Monday	Tuesday	Wednesday	Thursday	Friday
12:50 – 1:40		12:50 – 1:40		12:50 – 1:40

### 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, eighth 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.

Test 1: Friday, February 7

Test 2: Friday, February 28

Test 3: Friday, March 28

Test 4: Monday, April 21

Final: Friday, May 2, 10:00 a.m. – 12:00 p.m.

### Quizzes:

There will be frequent unannounced quizzes.

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**Final grade:**

4 tests		240
final		100
quizzes		60
_____		_____
Total		400

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

**Students with disabilities**

Students requesting classroom accommodation must first register with the Dean of Students Office. The Dean of Students Office will provide documentation to the student who must then provide this documentation to the Instructor when requesting accommodation.

**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/sccr/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:**

<http://people.clas.ufl.edu/turull/MAS4301-syllabus>