



MAS4203 – SPRING 2017 – SYLLABUS

This syllabus is subject to change.

Last change was ...

Previous change was made ...

Section	Period	Meeting Time	Room
8430	MWF 4th	10:40–11:30am	LIT 217

Dr. F.G. Garvan

408 Little Hall

(352) 294-2305

fgarvan@ufl.edu

Office Hours

Monday, Wednesday and Thursday (2:30 – 3:30pm). Also available by appointment.

Prerequisites

MAC 2312, MAC 2512 or MAC 3473 with a minimum grade of C;
MAS 3300 or MHF 3202 recommended.

Textbook

James K. Strayer, *Elementary Number Theory*, 2002 edition,
Waveland Press.

Course Description

This course is designed as an introduction to elementary number theory and its applications for Mathematics and Computer Science majors. This course is theoretical in nature. Emphasis is placed on theory and proofs. We hope to cover most of Chapters 1-5 of Strayer. As well we hope to cover some additional topics. The basic topics include the greatest common divisor, the fundamental theorem of arithmetic, arithmetic functions, multiplicative functions, congruences, the Chinese remainder theorem, quadratic residues, quadratic reciprocity and primitive roots. We hope to cover some material on cryptography.

Course Goals

By the end of the semester, you should know:

1. how to communicate mathematical ideas effectively;
2. how to write a mathematical proof;
3. the basic theory and applications of elementary number theory;

Website:

people.clas.ufl.edu/fgarvan/numtheory-spring-2017

Assesment

Assessment will be based on the following

Homework	25%
3 Exams	75%

There are two midterm exams and final exam which as two parts.

The final will count twice as much as each midterm, and I will drop either one of the midterms or one half of the final, whichever is lower.

Homework

Students are encouraged to form study groups. You may discuss homework with your class mates and Dr. Garvan. However it is not ok to copy anyone else's work. The work you turn in must be your own. The lowest homework score will be dropped.

Exams (Written medical documentation is required for makeup exams.)

Midterm Exam 1: TBA

Midterm Exam 2: TBA

Final Exam Part 1: TBA

Final Exam Part 2: TBA

Grade:

Grading scale: A 90%; A- 87%; B+ 83%; B 80%; etc.

The final will count twice as much as each midterm, and I will drop either one of the midterms or one half of the final, whichever is lower.

Grades for MAA 4402 and MAA 5404 will be computed separately.

University of Florida Policies

Grades: Grading will be in accord with the UF policy stated at <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.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](#) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

Class Attendance: Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

Accommodations for Students with Disabilities: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://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.

Online Evaluations: Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at <https://evaluations.ufl.edu>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at <https://evaluations.ufl.edu/results/>.

Contact information for the Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc/Default.aspx>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.

Created by F.G. Garvan(fgarvan@ufl.edu) On Saturday, December 31, 2016.

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