

COURSES

RESEARCH

UF NUMBER  
THEORY

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# SYLLABUS

This syllabus is subject to change.

Created Sunday, January 1, 2023. Updated Sunday, January 8.

## TENTATIVE VERSION

Section	Period	Meeting Time	Room
0987	MWF 3rd	9:35 – 10:25am	LIT 207

### Dr. Frank Garvan

408 Little Hall  
(352) 294-2305  
fgarvan@ufl.edu

### Office Hours

TO BE DETERMINED, or by appointment.  
Consult CANVAS course page for ZOOM LINK and send an email to Dr.G. to  
arrange meeting in advance.

### Prerequisites

MAC 2313 or MAC 3474, and MAP 2302, both with minimum grades of C.

### Textbook

R.V. Churchill and J.W. Brown, *Complex Variables and Applications*, 9th  
Edition, McGraw-Hill.

### Course Description

Complex numbers, analytic functions, Cauchy-Riemann equations, harmonic  
functions, elementary functions, integration, Cauchy-Goursat theorem, Cauchy  
integral formula, infinite series, residues and poles, conformal mapping. Credit  
will be given for, at most, MAA 4402 or MAA 5404.

MAA 5404 Additional Topic: Elliptic Functions (Reading and homework assignment)

### Course Objectives and Goals:

For the student to master the definitions and theory of functions of a complex variable.

For the student to write clear and complete solutions of problems involving functions of a complex variable.

### Tentative Weekly Course Schedule

WEEKS 1-2: Complex Numbers

WEEKS 3-5: Analytic Functions

WEEKS 6-7: Elementary Functions

WEEKS 8-10: Integrals

WEEK 11: Series

WEEKS 12-13: Residues and Poles

WEEKS 14-15: Applications of Residues

WEEK 16:

### Assessment

Assessment will be based on the following

Daily Quizzes	10%
Mid-Term Exam 1	25%
Mid-Term Exam 2	25%
Final Exam	40%

Short daily quizzes will be given. Homework will be assigned but not collected.

### In Class Exams

Exam 1: Monday, February 13

Exam 2: Monday, April 3

Comprehensive Final Exam: Thursday May 4, 12:30 – 2:30 PM

### Grading

Grading scale: A 93%; A- 88%; B+ 84%; B 80%; B- 77%; C+ 73%; C 70%; D 65%

### Attendance

Recommended

### **Make-up exams, quizzes and homework**

No make-up exams will be given except for documented special reasons, such as medical emergencies. Daily quizzes are grouped by week. Lowest week of daily quizzes will be dropped.

### **UF Grading Policies**

See [THIS LINK](#)

### **Accommodations for students with disabilities**

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center. [Getting Started with the Disability Resource Center](#)

It is important for students to share their accommodation letter with their instructor and discuss their access needs, as early as possible in the semester.

### **Online course evaluation process**

Students are expected to provide professional and respectful feedback on the quality of instruction in this course by completing course evaluations online via GatorEvals. Guidance on how to give feedback in a professional and respectful manner is available at <https://gatorevals.aa.ufl.edu/students/>. Students will be notified when the evaluation period opens, and can complete evaluations through the email they receive from GatorEvals, in their Canvas course menu under GatorEvals, or via <https://ufl.bluera.com/ufl/>. Summaries of course evaluation results are available to students at <https://gatorevals.aa.ufl.edu/public-results>.

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