

COURSES

RESEARCH

UF NUMBER
THEORY

PERSONAL WEB
PAGE

SYLLABUS

This syllabus is subject to change.

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

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 TO BE DETERMINED

In Class Exams

TO BE DETERMINED

Grading

Grading scale: A 93%; A- 88%; B+ 83%; B 80%; B- 77%; C+ 73%; C 63%; D 60%

Attendance

Policy to BE DETERMINED

Make-up exams, quizzes and homework

- TO BE DETERMINED

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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