

COURSES

RESEARCH

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# SYLLABUS – MAA 4402/5404 – FALL 2022

This syllabus is subject to change. Created Sunday, August 21, 2021. Updated Sunday, August 21.

## TENTATIVE VERSION

Section	Period	Meeting Time	Room
09A6/03G8	MWF 3rd	9:35 – 10:25am	MCC G086

## Dr. Frank Garvan

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

## Office Hours

4th period Wednesday, Friday 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: EXAM 1; Elementary Functions
- WEEKS 8-10: Integrals
- WEEK 11: EXAM 2; Series
- WEEKS 12-13: Residues and Poles
- WEEKS 14-15: Applications of Residues
- WEEK 16: EXAM 3

### Assessment

Assessment will be based on the following

Daily Quizzes	5%
Homework Reports	5%
Exam 1	30%
Exam 2	30%
Exam 3	30%

Short quizzes will be given each day (starting in Week 2). The lowest 3 will be dropped. Weekly homework will be assigned. Starting in Week 2 each student will write a weekly report for each homework (submit by canvas). It will be checked for submission but not graded. One homework will be dropped.

### Optional Comprehensive Final Exam

Any missed exam can be replaced by the Optional Comprehensive Exam. Lowest exam score can be replaced by the Optional Comprehensive Exam.

### In Class Exams

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- Exam 1: Monday, September 26
- Exam 2: Monday, October 31
- Exam 3: Monday, December 5
- Optional Comprehensive Final Exam: Thursday December 15, 12:30 PM – 2:30 PM

### Grading

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

### Attendance

Attendance counts as part of each Daily Quiz.

### Make-up exams, quizzes and homework

- Any missed exam can be replaced by the Option Comprehensive Final Exam.
- Any missed daily quiz or homework report can be dropped with the proper documentation.

### 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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