

Functions of a Complex Variable, Spring 2022 Syllabus

MAA 4402, Section: 0985

Class Periods: MWF, Period 3, 9:35 - 10:25 am

Location: Little 217

Instructor: Robin Tucker-Drob

Email: r.tuckerdrob@ufl.edu

Office Hours: Monday and Wednesday, 1:45 - 2:45 pm in Little 416 (or by appointment).

Textbook: *Complex variables and applications*, by Brown and Churchill (9th ed.)

Course Description This course is an introduction to complex analysis. We will cover topics from the first eight chapters of the textbook, including: complex analytic functions, the Cauchy-Riemann equations, the Cauchy-Goursat theorem, the Cauchy integral formula, complex power series, residues and applications to real analysis, and linear fractional transformations. (3 credits)

Course Prerequisites: MAC 2313 and MAP 2302 with a minimum grade of C.

Course Objectives: Students who successfully complete the course will be able to read and effectively communicate (through both writing and presentation) arguments, examples, and calculations concerning the complex analysis topics covered in this course.

Attendance Policy, Class Expectations, and Make-Up Policy:

University policy regarding class attendance, make-up exams, assignments, and other work can be found at <https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>

Course Schedule: The following is a tentative course schedule.

Week 1, January 5-7: sections 1-6
Week 2, January 10-14: sections 7-15
Week 3, January 19-21: sections 16-22
Week 4, January 24-28: sections 23-32
Week 5, January 31-February 4: sections 33-40
Week 6, February 7-11: sections 41-49
Week 7, February 14-18: sections 50-54, Midterm 1
Week 8, February 21-25: sections 55-64
Week 9, February 28-March 4: sections 65-73
Week 10, March 5-12: Spring Break
Week 11, March 14-18: sections 74-81
Week 12, March 21-25: sections 82-91
Week 13, March 28-April 1: sections 91-95, Midterm 2
Week 14, April 4-8: sections 96-102
Week 15, April 11-15: sections 103-111
Week 16, April 18-20: Review
April 26: Final Exam, 12:30 pm - 2:30 pm, Little 217

Homework and Exams: There will be about 8 Homework assignments throughout the semester to be submitted through Canvas. There will be two midterm exams and a final exam.

Midterm 1 is scheduled for Friday, February 18 (in class).

Midterm 2 is scheduled for Friday, April 1 (in class).

The Final Exam is scheduled for April 26, 12:30 pm - 2:30 pm in Little 217 (same as our class meeting room).

Evaluation of Grades: Each exam will be graded out of 100 points, and your homework grade will be out of 100. Each homework assignment will be graded as either satisfactory (full credit for that assignment) or unsatisfactory (no credit for that assignment); if you put in a good faith effort you will get a satisfactory grade for that assignment. I will also allow you to “drop one homework assignment grade.” So, for example, if out of the 8 homework assignments you get 5 satisfactory marks, then your homework grade will be $5/8 \approx 62.5/100$.

Then your total numerical grade (out of 100) will be calculated using the following percentage weights.

Assignment/Examination	Percentage weight
Homework	30
Exam 1	20
Exam 2	20
Final exam	30
Total	100

Grading Policy: Your numerical grade determines your letter grade as follows.

Numerical Grade	Grade	UF Grade Points
90.0 - 100.0	A	4.0
85.0 - 89.9	A-	3.67
80.0 - 84.9	B+	3.33
75.0 - 79.9	B	3.0
71.0 - 74.9	B-	2.67
67.0 - 70.9	C+	2.33
60.0 - 66.9	C	2.0
57.0 - 59.9	C-	1.67
54.0 - 56.9	D+	1.33
51.0 - 53.9	D	1.0
48.0 - 50.9	D-	0.67
0 - 49.9	E	0.00

More information on UF grading policy may be found at: <https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx>

Students Requiring Accommodations:

Students with disabilities who experience learning barriers and would like to request academic accommodations should connect with the disability Resource Center by visiting <https://disability.ufl.edu/students/get-started/>. 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.

Course Evaluation

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/>.

University Honesty Policy

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 (<https://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 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.

Academic Integrity All work that you hand in must be written by you and in your own words. You may discuss homework with others, but if you collaborate or receive help on any homework problem(s) then you must indicate on your homework precisely who helped you and to what extent. If your work uses information obtained from any sources other than class notes, the course textbook, or your own ingenuity, then these sources must be properly cited and you must indicate exactly which information comes from which source. You may not copy work done by others, either in or out of class; copying work is an act of scholastic dishonesty and any student who copies work will be prosecuted to the full extent allowed by University policy.

Software Use

All faculty, staff, and students of the University are required and expected to obey the laws and legal agreements governing software use. Failure to do so can lead to monetary damages and/or criminal penalties for the individual violator. Because such violations are also against University policies and rules, disciplinary action will be taken as appropriate. We, the members of the University of Florida community, pledge to uphold ourselves and our peers to the highest standards of honesty and integrity.

Student Privacy There are federal laws protecting your privacy with regards to grades earned in courses and on individual assignments. For more information, please see: <http://registrar.ufl.edu/catalog0910/policies/regulationferpa.html>

Campus Resources:

Health and Wellness

- U Matter, We Care: If you or a friend is in distress, please contact umatter@ufl.edu or 352-392-1575 so that a team member can reach out to the student.
- Counseling and Wellness Center: <http://www.counseling.ufl.edu/cwc>, and 352-392-1575.
- Student Health Care Center: 352-392-1161.
- University Police Department: 352-392-1111 (or 9-1-1 for emergencies), or <http://www.police.ufl.edu/>

Academic Resources:

- E-learning technical support, 352-392-4357 (select option 2) or e-mail to Learning-support@ufl.edu. <https://lss.at.ufl.edu/help.shtml>.
- Career Resource Center, Reitz Union, 352-392-1601. Career assistance and counseling. <https://www.crc.ufl.edu/>.
- Library Support, <http://cms.uflib.ufl.edu/ask>. Various ways to receive assistance with respect to using the libraries or finding resources.
- Teaching Center, Broward Hall, 352-392-2010 or 352-392-6420. General study skills and tutoring. <https://teachingcenter.ufl.edu/>.
- Writing Studio, 302 Tigert Hall, 352-846-1138. Help brainstorming, formatting, and writing papers. <https://writing.ufl.edu/writing-studio/>.
- Student Complaints Campus: https://www.dso.ufl.edu/documents/UF_Complaints_policy.pdf.
- Online Students Complaints: <http://www.distance.ufl.edu/student-complaint-process>.