



MAA 4402/5404 Intro to Complex Variables

Sections 0672/0673 Course Numbers 12263/12265)

https://people.clas.ufl.edu/pilyugin/courses/maa4402_sa2021/

Instructor: [Sergei S. Pilyugin](#)

Announcements: All important announcements will be posted here and in canvas. Please, follow all the University guidelines regarding the Covid-19 situation.

Homeworks: Homework problems will be posted here.

Prerequisites: (MAC 2313 or MAC 3474) and MAP 2302 with minimum grades of C. Credit will be given for, at most, MAA 4402 or MAA 5404.

Lecture format: The official course meeting time is MTWRF 4 (12:30 to 1:45 pm). The lectures will be delivered as synchronous video conferences via zoom through the course's canvas page. Every day, the zoom conference will commence at 12:00pm and end at 1:45pm. The lecture part of the conference (12:30 to 1:45pm) shall be recorded in the cloud, so you will have access to the previously recorded lectures. The two fifteen minute slots before and after the lecture will be dedicated to Q&A. Please, sign in via canvas in a timely fashion. In addition to zoom recordings, I will make PDF copies of lecture notes available in canvas.

Final Exam: The final exam will be held in canvas on the last day of classes.

Text: Complex Variables and Applications, 9th edition, by Brown and Churchill. Students are highly recommended to purchase the book, but older editions will probably suffice.

Course content: Complex numbers, analytic functions, the Cauchy–Riemann equations, harmonic functions, elementary functions, path integrals, the Cauchy–Goursat theorem, the Cauchy integral formula, infinite series, residues, poles, contour integration and conformal mapping.

Critical dates: 05/10 – classes begin, 06/18 – classes end. Quizzes: 05/13, 05/19, 05/27, 06/02, 06/10. Midterms: 05/21, 06/04. Final exam: 06/18. All tests will be held during respective class period. Holidays (no class): 05/31 – Memorial Day.

Office Hours: The beginning time slot (12:00 to 12:30pm) of the everyday zoom conference will be dedicated to Q&A on the course content. For all personal communications, please use e-mail: pilyugin@ufl.edu or canvas messaging.

Grading System: All tests/quizzes will be held in canvas. The tests/quizzes for MAA 5404 will differ from those for MAA 4402. For each test/quiz I will create the corresponding assignment with the attached pdf file containing the test problems. Please, complete the problems on paper (or otherwise), scan all pages into a single pdf file, and submit you solutions with this pdf file in

attachment.

The course grade will be determined by 2 midterms (15% each); 5 quizzes (10% each, the lowest score is dropped) based on homework assignments, and the cumulative final exam (30%). The resulting score determines the letter grade according to the following table

Letter Grade	A	A-	B+	B	B-	C+	C	C-	D+	D
Score	≥ 92	≥ 89	≥ 85	≥ 81	≥ 77	≥ 72	≥ 67	≥ 62	≥ 56	≥ 50

Expectations: Any work submitted for a grade in this course will be graded in a rigorous fashion, therefore it should have a great deal of thought and care put into it. Work which is sloppy or messy or that which is not written in a clear and coherent fashion will be marked down. This includes losing points for grammatical errors, spelling mistakes, and similar offenses.

Course policies:

University's 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 (<http://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.

Class attendance: Attendance will not be monitored. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found in the online catalog at:

<https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx>.

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 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/>.

U Matter, We Care: Your well-being is important to the University of Florida. The U Matter, We Care initiative is committed to creating a culture of care on our campus by encouraging members of our community to look out for one another and to reach out for help if a member of our

community is in need. If you or a friend is in distress, please contact umatter@ufl.edu so that the U Matter, We Care Team can reach out to the student in distress. A nighttime and weekend crisis counselor is available by phone at 352-392-1575. The U Matter, We Care Team can help connect students to the many other helping resources available including, but not limited to, Victim Advocates, Housing staff, and the Counseling and Wellness Center. Please remember that asking for help is a sign of strength. In case of emergency, call 9-1-1.



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