

Sergei Pilyugin
Department of Mathematics

College of Liberal Arts and
Sciences

Sergei S. Pilyugin

Courses

MAA 4402/5404
Intro to Complex
Variables
(Summer 2023)

4th per MAA
4103/5105 Intro
Real Anal 2
(Spring 2023)

5th per MAA
4103/5105 Intro
Real Anal 2
(Spring 2023)

MAA 4102/5104
Advanced
Calculus 1 E and
PS (Fall 2022)

MHF 3202 Sets
and Logic (Fall
2022)

Publications

Research

Schedule

Related Links

MAA 4402/5404 Intro to Complex Variables (Summer 2023)

Sections 0672/0673 Course Numbers 12111/12113)

https://people.clas.ufl.edu/pilyugin/courses/maa4402_sa2023/

Instructor: Sergei S. Pilyugin

Announcements: All important announcements will be posted here and in canvas.

Homeworks: Homework problems will be assigned/announced during lectures.

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 course meets MTWRF 4 (12:30 to 1:45 pm) live in LIT 223.

Final Exam: The final exam will be held in class 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: 05/15 – classes begin, 06/23 – classes end. Quizzes: 05/18, 05/24, 05/30, 06/07, 06/13, 06/21. Midterm: 06/02 (in class). Final exam: 06/23 (in class). All tests will be held in class during respective class period. Holidays (no class): 05/29 – Memorial Day, 06/19 – Juneteenth.

Office Hours: MTWRF3 11:00 – 12:15 pm. Students are welcome to attend live LIT 458 or via zoom (see zoom info in canvas) For all personal communications, please use e-mail: pilyugin@ufl.edu or canvas messaging.

Grading System: All tests/quizzes will be held in class.

The course grade will be determined by 1 midterm (20%); 6 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

CLAS IT

College of Liberal Arts
and Sciences

UF Mathematics

University of Florida

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.

In response to COVID-19: If you are not vaccinated, get vaccinated. Vaccines are readily available and have been demonstrated to be safe and effective against the COVID-19 virus. Visit one.ufl.edu for screening / testing and vaccination opportunities.

If you are sick, stay home. Please call your primary care provider if you are ill and need immediate care or the UF Student Health Care Center at 352-392-1161 to be evaluated.

Course materials will be provided to you with an excused absence, and you will be given a reasonable amount of time to make up work.