

Sergei S. Pilyugin

Courses

MAA 4103 Intro Real Analysis 2 (Spring 2025)

MAA 4402 Intro Complex Variables (Spring 2025)

MAA 4102 Intro Real Analysis 1 (Fall 2024)

MHF 3202 Sets and Logic (Fall 2024)

MAA 4402/5404 Intro to Complex Variables (Summer 2024)

Publications

Research

Schedule

Related Links

CLAS IT

College of Liberal Arts

# MAA 4402 Intro Complex Variables (Spring 2025)

Sections 0985/0987 Course Numbers 17933/17934)

[https://people.clas.ufl.edu/pilyugin/courses/maa4402\\_s2025/](https://people.clas.ufl.edu/pilyugin/courses/maa4402_s2025/)

**Instructor:** Sergei S. Pilyugin

**Announcements:** Lectures will be delivered live in LIT 0219 (this class has no online component). Quizzes and midterms will be given in class. All test scores will be posted 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 MWF 3 (9:35 – 10:25 am) live in LIT 0219.

**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.

**Critical dates:** Jan. 13 (classes begin), Apr. 23 (classes end). Quizzes: Q1 – 01/24, Q2 – 02/12, Q3 – 02/28, Q4 – 03/28, Q5 – 04/21. Midterms: M1 – 02/07, M2- 03/07, M3 – 04/16.

**Holidays:** Jan. 20 (MLK Day), Mar. 15–22 (Spring Break).

**Office Hours:** MWF 4 (10:40 — 11:30 a.m.) in LIT 0458, or by appointment. Please, use e-mail: [pilyugin@ufl.edu](mailto:pilyugin@ufl.edu) for communication. For more details, see my schedule.

**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 mappings.

**Grading System:** 3 midterms (20% each, in class); 5 quizzes (10% each, best 4 count, in class) based on homework assignments. There will be no final exam. 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

and Sciences

UF Mathematics

University of Florida

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:

Closed-book policy: No books, notes, formula sheets and calculators will be allowed during quizzes and midterms.

Grading disputes: Any concerns regarding the grading of exams/quizzes must be brought to the instructor's attention within one week after the exam/quiz score is posted in canvas.

Excused absences: Under special circumstances, a student will be able to make up a missed quiz. These circumstances could include medical situations, family emergencies, travel for University activities (eg. band, debating club, etc), and religious observances. In these cases the student must inform the instructor before or within one week after the missed work and **provide written documentation**. All make ups must be completed by the last day of classes.

Policy on class attendance: Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at:

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

Most students benefit a great deal from attending class regularly. Arriving late and/or leaving early, reading the newspaper, looking at your cell phone, etc. disrupts the class and is rude and unprofessional.

UF Honor Code: "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 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 TA's in this class."

Diversity statement: The University of Florida and the Department of Mathematics are committed to diversity and inclusion of all students. We recognize the diversity of backgrounds and learning needs of our students and strive to create a more inclusive and welcoming environment for everyone. We strongly believe that an inclusive learning environment promotes higher academic achievements.

For students with disabilities: "Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, <https://disability.ufl.edu/>) 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 feedback on the quality of instruction in this course based on 10 criteria. These evaluations are conducted online at <https://gatorevals.aa.ufl.edu/>. Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open.

Contact information for the Counseling and Wellness Center:

<https://counseling.ufl.edu/>, 392-1575; and the University Police Department: 392-1111 or 9-1-1 for emergencies.