

# MATH 502 Complex Analysis Spring 2018

**Class meets:** Monday, Wednesday, Friday 12:20 - 1:10 p.m. in 106 McAllister

**Instructor:** Dr. Victoria Sadovskaya (you may call me Victoria)

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*Office hours:* Monday 1:30 - 3 p.m., Wednesday 11 a.m. - noon, and by appointment

**Course web page:** <http://www.personal.psu.edu/vxs137/502/502.html>

**Course description:** The course is devoted to the analysis of differentiable functions of a complex variable. We will cover the following topics: complex numbers, holomorphic functions, Cauchy's theorem and applications, meromorphic functions, residue calculus, plane topology, conformal maps.

*Prerequisite:* Math 404.

**Text** (optional): Complex Analysis (Princeton Lectures in Analysis, II) by Stein and Shakarchi.

**Homework** will be assigned and collected weekly. No late homework will be accepted, except in cases of illness or family emergency. Solutions must be neatly and clearly written. You may discuss homework problems with me and with other students, but the final write-up must be your own.

**Exams:** There will be two in-class midterm exams and a two-hour cumulative final exam. The dates of the midterms will be announced two weeks in advance, and the final exam will be scheduled during the final exam week, April 30 - May 4. If you are unable to attend a midterm exam you should notify me promptly. If there is a compelling reason for absence, your score will be replaced by the final exam score; otherwise, the score for the missed test will be zero.

**Attendance:** You are expected to attend every class. If you miss a class, you are responsible for learning the material covered and knowing the announcements made in class.

**Grading Policy:** The final score and letter grade will be calculated as follows:

Homework:	45%	A	at least 90%	B-	at least 77%
Exam 1:	15%	A-	at least 87%	C+	at least 74%
Exam 2:	15%	B+	at least 84%	C	at least 70%
Final Exam:	25%	B	at least 80%	D	at least 60%

**Academic Integrity:** All Penn State Policies regarding ethics and honorable behavior apply to this course. They can be found at

<http://science.psu.edu/current-students/Integrity/Policy.html>

**Students with disabilities:** At Penn State, we are committed to providing a welcoming, encouraging, and empowering environment for students with disabilities to ensure equal access, full participation and reasonable accommodations for their academic pursuits. For further information, please visit the Student Disability Resources web site:

<http://equity.psu.edu/student-disability-resources>