

## Wagner College

**MA 322 – COMPLEX VARIABLES**

TEXTBOOK: *Introductory Complex Analysis*, [Paperback] By: Richard A. Silverman;  
Dover, ISBN: 0486646866

*Complex Analysis for Mathematics and Engineering*, 4<sup>th</sup> Edition, By:  
John H. Mathews, Russell W. Howell; Jones and Bartlett Publishers,  
ISBN: 0763714259

*Maple*<sup>®</sup> is strongly recommended (it is used in the second textbook).

INSTRUCTOR: Dr. Adrian Ionescu <http://www.wagner.edu/faculty/users/ionescu/>

EMAIL: [ionescu@wagner.edu](mailto:ionescu@wagner.edu)

OFFICE: Room 117, Megerle Science Hall, x3245

OFFICE HOURS: MW 09:20 – 10:20 AM (by appointment only)  
TTH 09:20 – 11:20 AM

COURSE WEB PAGE: <http://ionescu.pageout.net/>

COURSE OBJECTIVES: This course focuses on principles of complex variables. Topics include complex numbers, analytic functions, conformal mapping, Taylor and Laurent series, contour integration, and residues.

## COURSE OUTLINE:

- Complex Numbers
- Complex Functions
- Analytic and Harmonic Functions
- Sequences and Power Series
- Elementary Functions
- Complex Integration
- Taylor and Laurent Series
- Residue Theory
- Conformal Mapping

GRADING POLICY: You are responsible for all material covered in class, as well as that in the text. Homework will be collected and graded weekly.

- MIDTERM (30%)
- FINAL EXAMINATION (40%)
- HOMEWORK/PROJECTS/CLASS PARTICIPATION (30%)

GRADING SCALE: Letter grades will be determined by the following scale, where 100 corresponds to the highest point total earned by any student in the class:

Average	Grade
93 - 100	A
90 - 92	A-
87 - 89	B+
83 - 86	B
80 - 82	B-
77 - 79	C+
73 - 76	C
70 - 72	C-
67 - 69	D+
60 - 66	D
< 60	F

**COURSE POLICIES:**

- There will be no make-up examinations. *A student who is unable to attend a major examination due to illness or other emergency is required to contact his instructor within 24 hours of the exam time.* If an exam is missed due to an emergency, the final will be counted twice; once as a final, and once in place of the missed exam. Late homework will not be graded.
- Any preceding policies may be waived at my discretion

For inclement weather updates or other announcements please check your e-mail and the following page regularly: <http://www.wagner.edu/faculty/users/ionescu/notes.htm>

If you have a disability for which you may be requesting an accommodation, you are encouraged to contact both your instructor and Dina Assante in the Academic Advisement Center, 390-3278 as early as possible in the term.