**Course Description.** Complex arithmetic, geometry, conformal mapping, analytic functions, and residues. Su Qtr. 3 cl. Prereq: Permission of dept. Not open to students with credit for 514 or 552. Recommended primarily for grad students in science and engineering.

**Instructor.** Matthew Stenzel, Ph.D. Office: MA438. Office hours: MWF 1:30–2:30 pm and after class. Other meeting times can easily be arranged. Email: stenzel.3@osu.edu Tel: 614-688-3177


**Grading Scheme.**

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>50%</td>
</tr>
<tr>
<td>Midterm Test</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
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</tbody>
</table>

**Approximate Schedule.** This schedule is subject to change.

- **Week 1:** Chapter 1 (Complex Numbers), part of Chapter 2 (Analytic Functions).
- **Week 2:** Finish Chapter 2, Chapter 3 (Elementary Functions).
- **Week 3:** Chapter 4 (Integrals).
- **Week 4:** Chapter 5 (Series). Midterm Test 1 on Friday, July 14.
- **Week 5:** Chapter 6 (Residues and Poles).
- **Week 6:** Chapter 7 (Applications of Residues).
- **Week 7:** Chapter 8 (Mappings by Elementary Functions).
- **Week 8:** Chapter 9 (Conformal Mapping); start Chapter 10 (Applications of Conformal Mapping).
- **Week 9:** Catch up and finish Chapter 10.
- **Week 10:** Review on Monday, August 21. Final exam Tuesday, August 22, 3:30–5:18 p.m.

**Accommodations for students with disabilities.** Any student who feels s/he may need an accommodation based on the impact of a disability should contact me privately to discuss your specific needs. Please contact the Office for Disability Services at 614-292-3307 in room 150 Pomerene Hall to coordinate reasonable accommodations for students with documented disabilities. http://www.ods.ohio-state.edu.

**Academic Integrity (Academic Misconduct)** Academic integrity is essential to maintaining an environment that fosters excellence in teaching, research, and other educational and scholarly activities. Thus, The Ohio State University and the Committee on Academic Misconduct (COAM) expect that all students have read and understand the University’s Code of Student Conduct, and that all students will complete all academic and scholarly assignments with fairness and honesty. Students must recognize that failure to follow the rules and guidelines established in the University’s Code of Student Conduct and this syllabus may constitute Academic Misconduct. The Ohio State University’s Code of Student Conduct (Section 3335-23-04) defines academic misconduct as: “Any activity that tends to compromise the academic integrity of the University, or subvert the educational process.” Examples of academic misconduct include (but are not limited to) plagiarism, collusion (unauthorized collaboration), copying the work of another student, and possession of unauthorized materials during an examination. Ignorance of the University’s Code of Student Conduct is never considered an excuse for academic misconduct, so I recommend that you review the Code of Student Conduct and, specifically, the sections dealing with academic misconduct.

If I suspect that a student has committed academic misconduct in this course, I am obligated by University Rules to report my suspicions to the Committee on Academic Misconduct. If COAM determines that you have violated the University’s Code of Student Conduct (i.e., committed academic misconduct), the sanctions for the misconduct could include a failing grade in this course and suspension or dismissal from the University. If you have any questions about the above policy or what constitutes academic misconduct in this course, please contact me.