Course Plan MATH 5010.352—Seminar in Mathematics Applications of Complex Variables Summer 2010

- Instructor Dr. A. Noell; office: MS 404, ph: 744-5772; email: noell@math.okstate.edu; home page: www.math.okstate.edu/~noell
- Office hours Monday, Tuesday, Wednesday, and Thursday 1:00-1:50, or by appointment
- **Grading** Grades for this course will be based on averages of homework scores. The following scores are guaranteed: 90%—A; 80%—B; 70%—C; 60%—D.
- **University drop policy** The last day to drop the course with no grade is Wednesday, June 9. A grade of "W" will be recorded if the course is dropped after June 9 and before the end of Friday, July 16. The last day to drop the course is Friday, July 16.

References The following books are on reserve in the OSU Library.

- John H. Mathews and Russell W. Howell: Complex Analysis for Mathematics and Engineering
- E. B. Saff and A. D. Snider: Fundamentals of Complex Analysis
- **First assignment** These three problems are due on Thursday, June 10. In each case use residues to find the Fourier transform of the given function.
 - 1. $(t^2 + 8t + 20)^{-1}$
 - 2. $(a^2t^2 + b^2)^{-1}$ if a and b are positive constants
 - 3. $(t^4+1)^{-1}$