

**MATH 425-001
COMPLEX ANALYSIS**

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Course meets: MWF 12:40 - 13:30, A304 WH
Office Hours: MWF 11:30 - 12:30
C-335 Wells Hall (353-7997)

Complex numbers, analytic and harmonic functions, the residue theorem, contour integrals, conformal mappings, Riemann mapping theorem, the special functions and more advanced topics as time permits.

- (Main) "Complex Analysis" by J.Bak and D.J.Newman
Springer. Undergrad Text in Math.
ISBN 0-387-94756-6
QA331.7.B35

- (Recommended) "Complex Analysis" by L.V. Ahlfors
I. Series in Pure and Applied Math (McGraw-Hill)
ISBN 0-07-000657-1
QA331.A45

Grading: 3 exams each counting %20, and Final exam counting %40 of the grade.
Plus some HW assignments. Rules of Academic Honesty will be strictly adhered.

Final: Thursday- May/7 12:45-2:45

Final Examination date is posted on the Registrars website (check for updates).
<http://www.reg.msu.edu/ROInfo/Calendar/FinalExamSS15.aspx>

Important dates: <http://www.reg.msu.edu/ROInfo/Calendar/academic.aspx>

Monday – 01/12/2015 Classes Begin.

Friday – 01/16/2015 - Online open add period for Spring semester ends at 8 p.m.

Monday – 01/19/ 2015 - Martin Luther King Day - University open, classes cancelled.

Monday – 01/19/2015 - Friday 01/23/2015 - Students go to Undergraduate office, C212 Wells Hall for Mathematics enrollment changes. (Late adds, drop to lower course, section changes).

Friday – 02/06/2015 - End of 100 % Tuition Refund.

Wednesday – 03/04/2015 - Middle of Semester. Last day to drop a course without a grade being reported.

Monday – 03/09/2015 - Friday 03/13/ 2015 Spring Break

Friday – 05/01/2015 Last day of classes.

Homework:

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- Chapter 1: 1,2,3,4,7,12,15,21, 26, 28
- Chapter 2: 9,10,12,13,14, 15, 19, 23
- Chapter 3: 1, 4, 5, 7, 8,10, 14,15, 17, 21,22
- Chapter 4: 2,6, 7, 8, 9, 10
- Chapter5: 1,2,4,5,8,15
- Chapter6: 1,3,7,8,10,11
- Chapter 7: 2, 8, 7, 10, 13,19, 21
- Chapter 8: 2, 5, 8
- Chapter 9: 1, 6, 11, 15, 17
- Chapter 10: 1, 2, 3, 7,10, 11, 12, 14, 17
- Chapter11: 1,2,3,4,9,13