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# **MATH 301**

#### **Announcements:**

#### **Course overview**

### Topics:

- 1. Complex integration 1 week
- 2. Multivalued functions, branch points and branch cuts 1.5 weeks
- 3. Integrals involving multivalued functions 1.5 weeks
- 4. Conformal mappings and applications 3 weeks
- 5. Poles and zeros of complex functions 1 week
- 6. Fourier analysis 2 weeks
- 7. Laplace transform 2 weeks

#### MATH 301 : SLATE @ Stat UBC

Textbook:

Fundamentals of Complex Analysis by Saff and Snider (Third Edition).

We may cover some material not in the textbook.

#### **Instructor Information**

Instructor: Richard Froese

Email: rfroese-at-math-dot-ubc-dot-ca
Office Location: Math Annex 1106
Office Hours: by appointment

Office Phone: 604-822-3042

#### **Location and Time**

MWF 11:00-12:00

Leonard S. Klinck (also known as CSCI) 460

#### **Grades**

The following weightings will be used in computing your final grade:

Homework (lowest two scores dropped): 10%

Midterms: 40%

Exam: 50%

If you miss the test for a legitimate reason (e.g., illness with doctor's note), the weight of the final exam will be increased.

#### **Homework and Tests**

There will be weekly homework assignments. The assignments and due dates will be posted on this page. Late homework will not be accepted. Even if you miss the deadline, its a good idea to do the problems, since this is the best way to prepare for the tests and exam. You are welcome to discuss the homework problems with your friends, but are expected to hand in your own work.

There will be two midterm tests in class on **Wednesday**, **February 13** and **Friday March15** as well as a final exam during the April exam period. You will not be permitted to bring calculators or formula sheets to the tests and exam.

# Homework 1 due Jan 9:

Section 5.6 (p. 285) 1 adeg, 5 abcd (give a reason), 12, 13, 14, 15 Section 6.1 (p. 313) 1 bdf, 3 ceg, 5, 7.

#### **Files**

Here are a collection of handwritten notes by Michael Ward that you might find useful.

m301.01.integ.pdf m301.02.sum.pdf m301.03.mval.pdf (an old version - please see the following two files for an updated version) m305 multi.pdf m305 branch.pdf m301.04.imval.pdf m301.05.res.pdf m301.06.map1.pdf m301.07.map2.pdf <u>m301.08.conf.pdf</u> m301.09.symm.pdf <u>m301.10.fluid.pdf</u> <u>m301.11.four.pdf</u> m301.12.lapl1.pdf m301.13.nyquist.pdf m301.14.lapl2.pdf

These notes by Rodolfo R. Rosales of MIT discuss branch points and branch cuts: <a href="mailto:rosales.branch.pdf">rosales.branch.pdf</a>

Fourier transform summary sheet: <a href="ftsummary.pdf">ftsummary.pdf</a>

Terry Tao's java applets:

http://www.math.ucla.edu/~tao/java/index2.html

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  - SLATE: Learning And Teaching Environment: created by the Department of Statistics
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  - • <u>User Guide</u>



Department of Mathematics

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