Course Outline

McGill University values academic integrity. Therefore all students must understand the meaning and consequences of cheating, plagiarism and other academic offences under the Code of Student Conduct and Disciplinary Procedures (see Academic Integrity for more information).

L'université McGill attache une haute importance à l'honnêteté académique. Il incombe par conséquent à tous les étudiants de comprendre ce que l'on entend par tricherie, plagiat et autres infractions académiques, ainsi que les conséquences que peuvent avoir de telles actions, selon le Code de conduite de l'étudiant et des procédures disciplinaires (pour de plus amples renseignements, veuillez consulter le site Academic Integrity.

Syllabus Information

Honours Complex Variables. - 601 - MATH 249 - 001

Associated Term: Winter 2015
Downtown Campus
Lecture Schedule Type
Lecture Instructional Method

Topics:

Instructor: Dr. Gantumur Tsogtgerel
Office: Burnside Hall 1123
Office hours:
Email: gantumur@math.mcgill.ca
Phone: (514) 398-2510

Websites: MyCourses and www.math.mcgill.ca/gantumur/math249

Prerequisite: MATH 248 (Honours Advanced Calculus)
Restriction: Intended for Honours Physics and Engineering students
Restriction: Not open to students who have taken or are taking MATH 316

Exams and Homework Assignments: There will be a midterm exam and a final exam. We will have 3-4 one written homework assignments. All homework assignments will count towards the final grade. Late homework will not be accepted.

Midterm: Before the study break, in class.

McGill policies and disclaimers

In accord with McGill University's Charter of Students' Rights, students in this course have the right to submit in English or in French any written work that is to be graded.

In the event of extraordinary circumstances beyond the University's control, the content and/or evaluation scheme in this course is subject to change.

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Additional policies governing academic issues which affect students can be found at www.mcgill.ca/secretariat/policies/students.

Syllabus: Very standard topics, except vector valued functions, which we will cover if time permits.
- Power series, analytic functions, elementary functions
- Holomorphic functions, contour integration, Cauchy's function theory
- Isolated singularities and the residue
- Conformal maps, harmonic functions
- Vector valued analytic functions, spectral theory of matrices (if time permits)

Required Readings & Materials: To supplement the lecture notes, one of the following options is recommended.

- Elias Stein and Rami Shakarchi, *Complex analysis*. Princeton 2003.
- Theodore Gamelin, *Complex analysis*. Springer 2001.
- Matthias Beck, Gerald Marchesi, Dennis Pixton, and Lucas Sabalka, A first course in complex analysis

Method of Evaluation:

Grading: Homework 20% + Midterm 20% + Final exam 60%

Course URL: click

Office Hours:

Time	Days	Where	Contact	Dates

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