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 This course serves as an introduction to the theory of functions of a complex variable and integration in the complex plane. A good way to think of this subject is "calculus with complex numbers". The course is not proof-based, although students should expect it to be more conceptually demanding

than 1000 or 2000 level math classes. Some simple proofs will be covered in the lecture, and exams will test concepts in addition to computations.

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Introduction. This technical report gives a brief introduction

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complex variables In this chapter we study the n -dimensional complex vector space C^n and introduce some notation used throughout this book. After recalling geometric and topological notions such as connectedness or convexity we will introduce holomorphic functions and mapping of several complex variables and prove the n -dimensional

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This course provides an introduction to complex

analysis which is the theory of complex functions of a complex variable. We will start by introducing the complex plane, along with the algebra and geometry of complex numbers, and then we will make our way via differentiation, integration, complex dynamics, power series representation and Laurent series into territories at the edge of what is known today.

Introduction to Complex Variables by Greenleaf, Frederick ...

Math 3160 introduction. We describe the exegesis for complex numbers by detailing the broad goal of having a complete algebraic system, starting with natural numbers and broadening to integers, rationals, reals, to complex, to see how each expansion leads to greater completion of the algebra. Lecture 2.

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Mahya Ghandehari Office: Room 251,
Chase Building Contact: ghandeh
(at) mathstat (dot) dal (dot) ca
Lecture: Tuesday, Thursday
11:35-12:55PM, OCEANOGRAPH 03655
Office Hours: Tuesday, Thursday
2:30-3:30PM, Chase 251

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