

Calculus II			
Undergraduate / Graduate	Undergraduate	Registration Code	0055222
Course Category	Sciences Basic	Credits	2.0
Term (Semester) / Day / Period	G-II (1st year, Spring Semester) / Fri / 2 (10:30~12:00)		
Instructor	RICHARD Serge		
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<p>●Goals of the Course Analysis is the field of mathematics that describes and analyzes quantitative changes, and the central methods are differential and integral calculus. These methods are essential techniques in natural science, and have recently found increasing applications also in social sciences.</p> <p>●Objectives of the Course The aim of the second half of this one-year course is to provide a solid understanding of functions of several real variables. The students will become familiar with the various tools necessary for the analysis of such functions.</p> <p>●Course Content or Plan The basic notions related to the study of functions of several variables, as for example: partial derivatives, maximum and minimum, implicit functions theorem, multiple integrals, change of variables, Jacobian matrix, surface and line integrals. Some elements of vector calculus will also be introduced.</p> <p>●Course Prerequisites and Related Courses Some notions on functions of one variable, as seen in Calculus I. A basic knowledge of linear algebra will be an asset. It is strongly encouraged to attend the Mathematics Tutorial 2a which is linked to this course.</p> <p>●Course Evaluation Method and Criteria The final grade will be determined by quizzes (30%), the midterm (30%) and a final exam (40%). The grading scale will be A+, A, B, C, C-, F. Students need to notify the course withdrawal to the instructor when they have no intention of finishing the course during the semester.</p> <p>●Study Load(Self-directed Learning Outside Course Hours) Students are expected to read their notes, and to be familiar with the content of the lectures of Calculus II before each tutorial sessions.</p> <p>●How to Respond to Questions By email. Look also at the related website http://www.math.nagoya-u.ac.jp/~richard/spring2022.html</p>			
Textbook	Free reference books and lecture notes will be available on the website of the course		
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