

Calculus II			
Registration Code	0055221	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-II (1st year, Spring Semester) / Fri. / 2 (10:30~12:00)		
Instructor	RICHARD Serge Charles		
Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(P·C·Au)·Ag(B)		
<p>● Goals and objectives of the Course</p> <p>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>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 Prerequisites</p> <p>Some notions on functions of one variable, as seen in Calculus I. A basic knowledge of linear algebra will be an asset.</p>			
<p>● Course Content/Plan</p> <p>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>● Evaluation Methods and Criteria</p> <p>The final grade will be determined by quizzes (30%), the midterm (30%) and a final exam (40%). The grading scale will be S: 90-100, A: 80-89, B: 70-79, C: 60-69, F: 0-59. It is necessary to submit a Course Withdrawal Request Form when the student has no intention of finishing the course during the semester.</p>			
<p>● Notice for Students</p> <p>It is strongly encouraged to attend the Mathematics Tutorial 2a which is linked to this course.</p>			
Textbook	Free reference books and lecture notes are available on the website of the course		
Reference Book	Free reference books and lecture notes are available on the website of the course		
Reference website	http://www.math.nagoya-u.ac.jp/~richard/spring2020.html		
Message			