

Calculus I			
Registration Code	0064511	Credits	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-I (1st year, Fall Semester) / Thu. / 5 (16:30~18:00)		
Instructor	RICHARD Serge Charles		
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Target Schools (Programs)	Hu(J)·La(S)·Ec(S)·Sc(P·C·B)·En(P·C·Au)·Ag(B)		
<p>●Aim 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. The aim of the first half of this one-year course is to provide a solid understanding of functions of a single variable.</p> <p>●Course Prerequisites Some basic knowledge on calculus from high school is assumed, including differentiation and integration of polynomial functions.</p> <p>●Course Content</p> <ol style="list-style-type: none"> 1. Limits and continuity Basic properties of limits of sequences and functions, continuous functions and their basic properties, maxima and minima, asymptotic properties of functions. 2. Differentiation Basic properties of the derivative and its interpretation, mean value theorem, higher derivatives, Taylor series. 3. Integration Riemann integral and its properties, improper integrals, the fundamental theorem of calculus. <p>●Course Evaluation Methods The final grade will be determined by quizzes (30%), the midterm (30%) and a final exam (40%).</p> <p>●Notice for Students : This course uses the course withdrawal system. To withdraw from the course and obtain the grade Absent the student must submit a written Course Withdrawal Request before the end of November. After that time any student who participated in any part of the examination will be graded S, A, B, C or F.</p>			
Textbook	---		
Reference Book	---		