Basic Mathematics

Registration Code	0051321	**Credits**	2.0
Course Category	Sciences Basic		
Term (Semester) / Day / Period	G-II (1st year, Spring Semester) / Mon. / 3 (13:00 – 14:30)		
Instructor	DARPOE Erik Olof		
Target Schools (Programs)	Hu(J)・La(S)・Ec(S)		

●Goals and Objectives of the Course
The purpose of this course is to review mathematical concepts and techniques that are frequently used in economics and social sciences.

●Course Prerequisites
No formal prerequisites. Basic skills in manipulating algebraic expressions, solving equations etc. will be helpful.

●Course Contents/Plan
1. Lines and their slopes
2. Sets, equations, absolute values
3. Functions and their graphs
4. Combinations of functions
5. Transformations of functions
6. Quadratic functions
7. Polynomial functions
8. Exponential functions
9. Logarithmic functions
10. Systems of equations and inequalities
11. Linear systems, vectors and matrices
12. Derivatives
13. Extremal value problems

●Course Evaluation Methods
The examination consists of a midterm exam (40% of the total score), a final exam (50%), homework (10%).

Course withdrawal: Any student who does not participate in the final exam will receive the grade “Absent”. It is not necessary to submit a course withdrawal request form.

●Notice for Students
It is recommended to prepare for each lecture by reading corresponding chapter in the textbook in advance.
As the students at this course are likely to have rather different backgrounds in and knowledge of mathematics, the workload required to follow the course will vary depending on individual circumstances.

Textbook	Rhonda, Huettenmueller: ***Pre-calculus demystified***, second edition McGraw-Hill Education; 2 edition (2012) ISBN-13: 978-0071778497
Reference Book	Additional material may be provided during the course.
Reference website	
Message	