

Hanyang International Winter School

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	Home University		Hanyang University			
	Department		College of Economics and Finance			
	Homepage					
Course Information	Class No.		TBA	Course Code		Credits 3
	Course Name		Calculus 1			
	Lecture Schedule		Mon-Fri /			
	Course Description		This course covers topics of differential and integral calculus, including functions and limits, differentiation, definite and indefinite integrals, and applications of derivatives and integrals.			
	Course Objective		 Introduce the fundamental concepts and properties of single variable calculus; Explore the theorems and applications of differentiation and integration; Provide students with the mathematical tools necessary for more advanced courses. 			
	Prerequisite		-			
	Materials/Textbooks		Single Variable Calculus, Ninth edition, by James Stewart			
Evaluation	Attendance		20%	Quiz		%
	Assignment		%	Mid-term Exa	m	40%
	Presentation		%	Final Exam		40%
	Group Project		%	Participation	1	%
	Etc.		Evaluation Item			Ratio
						%
						%
Daily	Day 1	Course in	introduction; functions			
	Day 2	The limit of a function				
	Day 3	Calculating limits using the limit laws; The derivative as a function				
	Day 4	The chain rule; Implication differentiation; Linear approximation; Midtern Q&A				
Lecture Plan	Day 5	Midterm exam; Applications of differentiation I				
	Day 6	Applicati	ions of differentiation II; The definite integral			
	Day 7	The fund	damental theorem of calculus			
	Day 8	Indefinite	e integrals; Applicatio	ons of integration	of integration	
	Day 9 Final Q8		kA; Final exam			