

Hanyang International Summer School

Faculty Information	Nan	ne	Yang Shen					
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	Home Un	iversity	Hanyang University					
	Department		College of Economics and Finance					
	Homepage							
Course Information	Class No.		18078	Course Code	GEN2052	Credits	3	
	Course Name		Calculus 1					
	Lecture Schedule		Tue - Fri / 9:00 AM - 12:00 PM					
	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 E	kam		40%	
	Presentation		%	Final Exa	m		40%	
	Group Project		%	Participati	on		%	
	Etc.		Evaluation Item			Ratio		
							%	
							%	
Daily Lecture Plan	Week 1	Day 1	Course introduction; algebra review; functions					
		Day 2	The limit of a function					
		Day 3	Calculating limits using the limit laws					
	Day 4		Derivatives and rates of change					
	Week	Day 1	The derivative as a function					
	2	Day 2	Differentiation formulas and the chain rule					



		Day 3	Implicit differentiation; Midterm Q&A	
		Day 4	Midterm exam; linear approximation and differentials	
		Day 1	Applications of differentiation I	
Week		Day 2	Applications of differentiation II	
	3	Day 3	3 The definite integral	
		Day 4	The fundamental theorem of calculus	
		Day 1	Indefinite integrals	
	Week	ek Day 2 Applications of integration		
	4	Day 3	Final Q&A Final exam	
		Day 4	Graduation (NO class)	