

Syllabus [2025Year 2 Term]

Course Information

Course Title	General Mathematics 2	Credits	3
Course Code	559370-1	Required/Elective (For Undergraduate Courses)	
Department or Major	Department of International Business Administration	Language	English
Methods of Teaching		Lecture Room	화1,2,3/수9,10,11(국제608)
Time Allotment	Lecture(3) Experiments(0) Trainging & Practice(0) Performance(0) Designing & Planning(0)	Cyber Lectures	
Course Type	offline		
Cyber Lectures Preview			

Lecturer

Lecturer	Name	Haegyun Lee	Rank	Professor	Final Academic Degree	공학박사
	Department & college	Department of Civil and Environmental Engineering		Office	College of Engineering – Building 1 206	
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	Field of Interest					

Course Summary

Course Description	Modern Society needs engineers and scientists with logical and reasonable mathematical thinking. Hence mathematics has to be studied for scientists and engineers in every discipline. The class covers the topics including sequences and infinite series, simultaneous linear equations and matrix operations, vectors, partial differentiation, and multiple integrals, and etc.
Description Related Courses	N.A.
Course Goals	
Projected Results	

Percentage of the original language classes(%)	
Cyber Lectures Preview	

Syllabus

Times	Lecture Topic	Lecture Goals	Lecture Methods	Assignments
1	Introduction, Sequences, Series, and Power Series		강의,	
2	Taylor and Maclaurin Series		강의,	
3	Vectors and the Geometry of Space		강의,	
4	Dot Product, Cross Product		강의,	
5	Cylinders and Quadric Surfaces		강의,	
6	Vector Functions and Space Curves		강의,	
7	Derivatives and Integrals of Vector Functions, Arc Length and Curvature		강의,	
8	Homework Review, Mid-term Exam		강의, 토의토론수업,	
9	Double & Triple Integrals		강의,	
10	Vector Calculus & Vector Fields		강의,	
11	Curl and Divergence, Parametric Surfaces and Their Areas		강의,	
12	Stokes' Theorem/Divergence Theorem		강의,	
13	Matrix operation		강의,	
14	Determinant and inverse of matrix		강의,	
15	Homework Review, Final Exam		강의, 토의토론수업,	

Methods of Grading

sequence	Description	Percentage	Details
1	Mid-term Exam	30%	
2	Final-exam	40%	
3	Pop Quizzes	0%	
4	Assignments	10%	
5	Reports	0%	
All		100%	

sequence	Description	Percentage	Details
6	Presentations & Discussions	0%	
7	Attendance	20%	
8		0%	
9	Others	0%	
All		100%	

Core of Value

핵심가치	핵심역량	하위역량	역량정의	역량구분	값(%)
혁신 (Discovery)	문제해결 (Deliberation)	분석력 창의력 종합적 사고력	문제상황을 명확하게 이해하고 체계적으로 분석하여 창의적으로 해결할 수 있는 능력		0%
혁신 (Discovery)	전문지식 (Knowledge)	탐구능력 논리적 사고력 전문지식/기술	전공분야 지식과 기술, 그리고 관련된 다양한 정보를 활용하여 논리적으로 사고하고 탐구하는 역량		0%
헌신 (Dedication)	세계시민 (Universal value)	외국어능력 다문화 수용능력 공감능력	세계 각지의 다양한 언어, 문화, 역사에 대한 이해를 바탕으로 글로벌 이슈에 대응할 수 있는 능력		0%
헌신 (Dedication)	협력.헌신 (Dedication)	대인관계능력 협업 능력 공동체의식	공통의 목적과 가치를 위해 개방적인 태도와 균형 잡힌 시간으로 서로 돕고 헌신할 수 있는 능력		0%
능동 (self-Determination)	자기주도 (management)	독립성 성찰 능력 자기개발능력	자기 스스로 목표를 세우고 목표를 달성하기 위해 주체적으로 실천할 수 있는 능력		0%
능동 (self-Determination)	의사소통 (Articulation)	표현력 이해력 조정력	언어 또는 다양한 매체를 활용하여 다른 사람들과 효과적으로 상호작용할 수 있는 능력		0%

Textbook(s) & References

Description	Title	Author	Publisher
Required Textbook	Calculus: Early Transcendentals (9th Ed.)	James Stewart	CENGAGE

Memo

In addition to the main textbook, necessary literature will be distributed during class.