

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
BUS302	01	마케팅조사론				3	전공선택	
		Marketing Research				3		
Name		e-mail			Address/Phone		Notes	
CHA KYOUNG CHEON		kccha@dau.ac.kr			051-200-7466			
Course Introduction	Need for the Course	To hep the firm's decision making process. It is required for this purpose to learn and practice statistical analysis methods.						
	Course Outline	Descriptive statistics, correlation, t-test, ANOVA, Chi-square test, Regression Model						
Course Objective	1) Data set preparation 2) Descriptice statistics and correation 3) Mean test: t-test, ANOVA, Chisqure test 4) Regression Model							
Preliminary Requisites	Business Statistics							
Texts	Main Texts	Analytical Marketing Research(Kyoung Cheon Cha, 2019, Hakhyunsa)						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		Experimental/ Practical					
	PPT, Excel practice.							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	10 %	20 %	0 %	35 %	35 %	0 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Class Introduction		
	Contents	- Case: Sports record forecasting and life cycle - Importance and Role of Marketing Data Research		
2	Objective	Basic of marketing Research and Industry		
	Contents	- Marketing Photos - Marketing ROI - Chap 1: Basic of Marketing Research - Chap 2: Marketing Research Industry		
3	Objective	Methods of Marketing Research		Excel Use
	Contents	- Chap 3: Methods of Marketing Research (Part 1) - Amy Cuddy's Experiment - Add-in: Excel Data Analysis		
4	Objective	Planning of marketing research		Computer Use
	Contents	- Chap 3: Methods of Marketing Research (Part 2) - Practice: Google Trend: CSV file down load - What is Research Proposal?		
5	Objective	Measurement and Scaling		Computer Use
	Contents	- Chap 4: Scale and Measurement - Practice: On-line Survey - Granovetter(1973)		
6	Objective	Sampling and Hypothesis Building		Excel Use, Computer Use
	Contents	- Chap 5: Sampling - Practice: Random sampling - Chap 6: Hypothesis Building - Case: Global warming - Practice: Market site evaluation system		
7	Objective	Statistical SW and Descriptive statistics		Excel Use, Computer Use
	Contents	- Chap 7: Set up statistical SW - Chap 8: Descriptive statistics - Practice: Descriptive statistics - Case: Foot traffic analysis		
8	Objective	Mid-term exam		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Correlation and Central limit theory		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 9: Correlation - Practice: Correlation - Case: B Company's ES - Chap 10: Central limit theory - Practice: Normal distribution 		
10	Objective	Mean test of Two groups		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 11: Mean test of Two groups - Practice: t-test 		
11	Objective	ANOVA		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 12: ANOVA - Practice: ANOVA - Case: Brain response and YouTube Reviews 		
12	Objective	Cross Tabulation and Chi square test		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 13: Cross Tabulation and Chi square test - Practice: Chi square test 		
13	Objective	Regression		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 14: Regression - Practice: Oring case - Case: N's Promotion Mix strategy 		
14	Objective	Conjoint Analysis		Excel Use, Computer Use
	Contents	<ul style="list-style-type: none"> - Chap 15: Conjoint Analysis - Practice: Conjoint Analysis - Explanation of Report writing 		
15	Objective	Final Exam		
	Contents	Final Exam		

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Course Number	Class	Course Title				Credit/Hour	Field	
BUS312	01	학점	글로벌운영및로지스틱스(종합설계)				3	전공선택
		학점	Global Operations and Logistics (Capstone Design)				3	
Name		e-mail			Address/Phone		Notes	
HYUN SEUNG YONG		syhyun@dau.ac.kr			051-200-7422			
Course Introduction	Need for the Course	Providing students to develop an understanding on the main topics in supply chain management and global operations and logistics.						
	Course Outline	The main objectives of this course is to enable students to develop an understanding on the main topics in supply chain management and global operations and logistics. In the course an outline is given on the central issues and trends in supply chain management and global operations and logistics. Examples of important trends are reduction of vendor bases, shift towards partnership sourcing, third-party logistics, e-business, postponement and efficient consumer response (ECR).						
Course Objective	One of the main objectives of this course is to enable students to develop an understanding on the main topics in supply chain management. The other main objective is to enable students to become acquainted with operations and logistics in a global environment. English speaking will be conducted through bi-lingual with Korean support in the class for better understanding.							
Preliminary Requisites	not necessary							
Texts	Main Texts	* Hill, C.W. and Hult, G.T., "International Business-Competing in the Global Marketplace", 13th Ed., McGraw-Hill, 2021 * Lecture PPT(class cafe)						
	References	* Dornier, P. 외 3인, "Global Operations and Logistics - Text and Case-", John Wiley & Sons, Inc. * Gourdin, K.N., "Global Logistics Management - a competitive advantage for the new millennium -",						
	Useful Websites	Class Cafe: http://cafe.daum.net/syhyun (Class Materials and Discussion & Q/A)						
Method of Instruction	Traditional lecture		Capstone Design(CAP)					
	Lecture and Discussion English/Korean bilingual class							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	0 %	30 %	40 %	10 %	100 %
Method	Written Exams : (30% + 40%) Class Participation (Class Q/A & Discussion) : 10% On-line class cafe Participation (Review & Discussion) : 10% Class Attendance : 10%							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Class Introduction Globalization in Business	Text: Ch1 자료실: Ch1.pptx	Lecture & Discussion
	Contents	Course Description and Introduction Globalization of Market & Production Drivers of Globalization		
2	Objective	Political Economy & Legal System in Global Business	Text: Ch2 & 3 (일부) 자료실: Ch2_3.pptx	Lecture & Discussion
	Contents	Political Economy of International Trade Legal System in Global Business National Differences in Economic Development		
3	Objective	Cultural Differences & Business Ethics in Global Business	Text: Ch4 & Ch5 (일 부) 자료실: Ch4_5.pptx	Lecture & Discussion
	Contents	Understanding of Economic & Cultural Differences Business Ethics in Global Business		
4	Objective	Government Policy & Regional Economic Integration	Text: Ch7 & 9 (일부) 자료실: Ch7_9.pptx	Lecture & Discussion
	Contents	Trade Policy & Government Intervention in International Trade Regional Economic Integration		
5	Objective	Foreign Direct Investment	Text: Ch8 자료실: Ch8.pptx	Lecture & Discussion
	Contents	Horizontal & Vertical FDI Benefits & Cost of FDI Home Country Policies and FDI Host Country Policies and FDI Export Strategies		
6	Objective	Exporting, Importing & Countertrade	Text: Ch16 자료실: Ch16.pptx	Lecture & Discussion
	Contents	Export Strategies Types of Countertrades Countertrade Policies		
7	Objective	Global Production & Supply Chain Management	Text: Ch17 자료실: Ch17.pptx	Lecture & Discussion
	Contents	Value Creation Approach Globalization of the Manufacturing Processes Global Supply Chain Functions & Flow Relationship		
8	Objective	Midterm Exam Period	Good Luck!	Midterm Exam Period
	Contents	Good Luck!		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Global Operations & Logistics	자료실: Global Operations.pptx	Lecture & Discussion
	Contents	Principles of Global Operations & Logistics Global Sourcing & Logistics Global Logistics & Flow Management	Global Logistics.pptx	
10	Objective	International Business Strategy	Text: Ch13 자료실: Ch13.pptx	Lecture & Discussion
	Contents	Strategy and the Firm Cost Pressures & Local Responsiveness Types of International Strategies		
11	Objective	Entry Strategy and Strategic Alliances	Text: Ch15 자료실: Ch15.pptx	Lecture & Discussion
	Contents	Advantages and Disadvantages of Entry Modes Acquisition or Greenfield Strategic Alliance Management		
12	Objective	Strategic Issues in Offshoresourcing & New Product Allocation	자료실: Offshore Sourcing.pptx New Product Allocation.hwp	Lecture & Discussion
	Contents	Strategic Decision for Offshore Sourcing Modes Matrix for New Product Allocation Normative Implications of the Matrix		
13	Objective	The Foreign Exchange Market & International Monetary System	Text: Ch10 & 11 (일부) 자료실: Ch10_11.pptx	Lecture & Discussion
	Contents	Foreign Exchange Rate Determination Managing Volatile Exchange Rate in Global Business		
14	Objective	Risk Management in Global Operations	자료실: Operating Exposure.pptx	Lecture & Discussion
	Contents	Understanding of the Real Exchange Rate Managing Operating Risk Exposure in Global Operations		
15	Objective	Case Study Class Summary & Review	Review & Summary	Lecture & Discussion
	Contents	Case Study Class Summary & Review		

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Course Number	Class	Course Title				Credit/Hour	Field	
CHE303	01	이수번호	응용수학				3	전공선택
		교과명	Applied Mathematics				3	
Name		e-mail			Address/Phone		Notes	
SU CHUL YANG		scyang@dau.ac.kr			051-200-7723			
Course Introduction	Need for the Course	The purpose of this course is to learn mathematical formulations on various phenomena in chemical engineering.						
	Course Outline	This course simultaneously includes theoretical study and mathematical calculations for chemical engineering processes. In particular, excel computing on vapor-liquid equilibrium, chemical reaction eq						
Course Objective	1. To understand mathematical formulations in chemical engineering 2. To design specific conditions for complex system 3. To calculate various cases in chemical engineering via Excel simulation							
Preliminary Requisites	Engineering mathematics, Physical Chemistry I,II							
Texts	Main Texts	Introduction to Chemical Engineering Computing by BRUCE A. FINLAYSON, Wiley						
	References	Fundamentals of Momentum, Heat, and Mass Transfer by James R. Welty, Charles E. Wicks, Robert E. Wilson, and Gregory L. Rorrer, 5th edition, John Wiley						
	Useful Websites							
Method of Instruction	Traditional lecture		Problem Based Learning(
	1. Lecture 2. Report							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	10 %	30 %	0 %	30 %	30 %	0 %	100 %
	Method	Final grade will be determined by Attendance 10%, Report/Term-Project 30%, Midterm 30%, and Final 30%.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Equations of State		
	Contents	Main Processes in Chemical Engineering		
2	Objective	Equations of State		
	Contents	Mathematical Formulations in Chemical Engineering		
3	Objective	Equations of State		
	Contents	Mathematical Formulations in Chemical Engineering		
4	Objective	Vapor-Liquid Equilibrium		
	Contents	Flash and Phase Separation Thermodynamic Parameters		
5	Objective	Vapor-Liquid Equilibrium		
	Contents	Computing Examples for VLE		
6	Objective	Chemical Reaction Equilibrium		
	Contents	Chemical Equilibrium, Reaction Kinetics		
7	Objective	Mass Balance		
	Contents	Mass Balanced Operations in Chemical Engineering Computing Examples for Mass Balance		
8	Objective	Mid-term Exam		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Chemical Reactor		
	Contents	Main Parameters for Chemical Reactor Design		
10	Objective	Heat Transfer		
	Contents	Heat Exchanger		
11	Objective	Heat Transfer		
	Contents	Fundamentals of Heat Transfer		
12	Objective	Mass Transfer		
	Contents	Fundamentals of Mass Transfer		
13	Objective	Semiconductor		
	Contents	Fundamentals of Semiconductor Processing		
14	Objective	Term-project		
	Contents	Proposal and Oral Presentation		
15	Objective	Final Exam		
	Contents			

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Course Number	Class	Course Title				Credit/Hour	Field	
DEP315	01	개설	경영학의기초				3	학과교양
		영어	Principles of Management				3	
Name		e-mail			Address/Phone		Notes	
IKSUN LEE		lis1007@dau.ac.kr			051-200-7425			
Course Introduction	Need for the Course	This is an opening course of business administration of a firm which is the most important organization in modern capitalistic society.						
	Course Outline							
Course Objective	This course aims to deliver basic knowledge on firms and management, and to lead participants on specific major of business administration.							
Preliminary Requisites								
Texts	Main Texts							
	References							
	Useful Websites							
Method of Instruction	lecture, discussion, Q&A, etc.							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		15 %	10 %	0 %	35 %	35 %	5 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	introduction		
	Contents			
2	Objective	basic concepts of management		
	Contents			
3	Objective	academic development of business administration		
	Contents			
4	Objective	purpose of a firm		
	Contents			
5	Objective	business start-up		
	Contents			
6	Objective	chief executive officer (CEO)		
	Contents			
7	Objective	business environment		
	Contents			
8	Objective	mid-term exam.		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	resources and capabilities of a firm		
	Contents			
10	Objective	corporate governance and organization structure		
	Contents			
11	Objective	organizational growth, change, and international management		
	Contents			
12	Objective	marketing and operation management		
	Contents			
13	Objective	accounting and finance		
	Contents			
14	Objective	human resource management and MIS		
	Contents			
15	Objective	final exam.		
	Contents			

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Course Number	Class	Course Title				Credit/Hour	Field	
DEP460	01	뇌, 행동과학				3	학과교양	
		Brain and Behavioral Science				3		
Name		e-mail		Address/Phone		Notes		
LEE EUN YOUNG		enyoung@dau.ac.kr		051-200-7924				
Course Introduction	Need for the Course	Understanding the brain's function and its relationship to behavior is essential to planning and studying the future health care system to enhance understanding of human behavior and health.						
	Course Outline	Refer to weekly lecture content						
Course Objective	This class aims to understand the correlation between brain and human behavior as a whole (learning and memory, personality, and social activity).							
Preliminary Requisites	Pre-learning is not essential.							
Texts	Main Texts	Schacter, D.L., Gilbert, D.T., Nock, M.K., & Wegner, D.M. (2018). Introducing psychology (4th Edition). New York: Worth.						
	References							
	Useful Websites	https://www.youtube.com/watch?v=bRFnzKmuMeU&list=PLuxydSryPuAx80-C2sXqogA5ZgWdMU2rs https://www.youtube.com/watch?v=-xd15PT_5fM&index=2&list=PLuxydSryPuAx80-C2sXqogA5ZgWdMU2rs https://www.youtube.com/watch?v=44B0ms3XPKU						
Method of Instruction		Traditional lecture		Discussion method(Havru		etc		
		Classes consist mainly of lectures. Q&A and discussion using PowerPoint.						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	0 %	0 %	35 %	35 %	20 %	100 %
	Method	Final exam: It will include everything I learned during the semester, but I will put more weight on the content after the midterm exam. etc => student presentation						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to the course		Lecture followed by Q & A and discussion sessions
	Contents	Course Overview		
2	Objective	To understand the organization of the brain	Chapter 3	Lecture followed by Q & A and discussion sessions
	Contents	The Organization of the Nervous System: Neuroanatomy		
3	Objective	To understand the organization of the brain	Chapter 3	Lecture followed by Q & A and discussion sessions
	Contents	Neurons: structure and electrical activity; Communication between neurons		
4	Objective	To understand human sensory systems	Chapter 4	Lecture followed by Q & A and discussion sessions
	Contents	Organization of the sensory systems Types of sensory systems Neural mechanisms of sensory systems		
5	Objective	To understand human learning and memory systems	Chapters 6-7	Lecture followed by Q & A and discussion sessions
	Contents	Types of learning Mechanisms of learning Types of memory Neural mechanisms of learning and memory		
6	Objective	To understand human learning and memory systems	Chapters 6-7	Lecture followed by Q & A and discussion sessions
	Contents	Types of learning Mechanisms of learning Types of memory Neural mechanisms of learning and memory		
7	Objective	To understand human language and decision making systems	Chapters 9-10	Lecture followed by Q & A and discussion sessions
	Contents	language development stage Neural mechanisms of language Decision making processes: factors affecting human decision making		
8	Objective	Mid-term Exam		
	Contents	Mid-term Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	To understand human language and decision making systems	Chapters 9-10	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	language development stage Neural mechanisms of language Decision making processes: factors affecting human decision making		
10	Objective	To understand human emotion and motivation system	Chapters 8	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	Emotional and Motivation processes Neural correlates of emotion and motivation		
11	Objective	To understand personality and social behaviors	Chapters 12-13	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	Understand core personality concepts Mechanisms of personality development		
12	Objective	To understand personality and social behaviors	Chapters 12-13	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	Understand core personality concepts Mechanisms of personality development methods to assess individual personalities		
13	Objective	To understand the relationship between brain and neurobehavioral Disorders	Chapters 14-15	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	Neurobehavioral Disorders: Understand ways to improve brain health		
14	Objective	To understand the relationship between brain and neurobehavioral Disorders	Chapters 14-15	Lecture followed by Q & A and discussion sessions+ Student Presentation
	Contents	Neurobehavioral Disorders: Understand ways to improve brain health		
15	Objective	Final Exam		
	Contents	Final Exam		

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2021 학년도 제 1학기

Course Number	Class	Course Title		Credit/Hour	Field
EC0203	01	시사경제론		3	전공선택
		Current Issues in Economics		3	
Name		e-mail		Address/Phone	Notes
ROE JOHN ROGER		jroe@dau.ac.kr		051-200-8694	

Course Introduction	Need for the Course	This course enables students to apply economic theory into social phenomenon.						
	Course Outline	This class is designed for student to have further understandings on current public issues based on basic knowledge of Economics.						
Course Objective	Based on the principles of Economics, students could understand causes and results of public issues.							
Preliminary Requisites	Principles of Economics							
Texts	Main Texts	Principles of economics						
	References	The Economics of Public Issues, Miller, Benjamin, and North, Peason Addison-Wesley, 14th ed,2005						
	Useful Websites							
Method of Instruction	Traditional lecture		Discussion method(Havru					
	This class is taught in English so that students are required to read class materials before attending the class.							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	20 %	30 %	30 %	0 %	100 %
Method	The course grade will be given to each student based on his/her attendance, class participation, assignments and exams.							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to Economics of public issues		Lecture and discussion
	Contents	Course outline What is Economics? Scarcity, opportunity cost, marginal concepts, efficiency Gains from trade		
2	Objective	Gains from trade		Lecture and discussion
	Contents	Production Possibilities(linear and bowed-out PPC) Characteristics of PPC PPC shifter Comparison b/w PPC and CPC with and without trade		
3	Objective	Demand and Supply		Lecture and discussion
	Contents	Market economy and command economy Demand, law of demand Change in quantity demanded and changes in demand: demand shifter Normal good and inferior good Supply, law of supply		
4	Objective	Elasticity		Lecture and discussion
	Contents	Price elasticity of demand Determinants of price elasticity of demand Characteristics of elasticity: Inelastic, unit, and elastic demand Price elasticity of demand and total revenue		
5	Objective	Elasticity		Lecture and discussion Watching CNN Economics Video and group discussion
	Contents	Income elasticity of demand: normal and inferior goods Cross price elasticity of demand: substitute and complementary goods Price elasticity of supply		
6	Objective	Government Price Control		Lecture and Discussion Quiz
	Contents	Price floor: Minimum wage Price ceiling: Rent control		
7	Objective	Market and Welfare		Lecture and discussion
	Contents	Consumer surplus Producer surplus Total surplus Deadweight loss with price elasticity of demand		
8	Objective	Mid-term Exam		
	Contents	Mid-term Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Government Intervention: Tax		Lecture and discussion
	Contents	Tax wedge Tax incidence: Tax and elasticities		
10	Objective	International Trade		Lecture and discussion Watching CNN Economics Video and group discussion
	Contents	Effects of free trade onto domestic consumers and producers Arguments that people use to advocate for trade restrictions Type of trade restriction: tariff and quota		
11	Objective	Externalities		Lecture and discussion
	Contents	Market failure Types of externalities: negative and positive externalities		
12	Objective	Cost of Production		Lecture and discussion
	Contents	Profit: accounting profit vs. economic profit Production function Diminishing marginal product Various measures of cost		
13	Objective	Firms in competitive markets		Lecture and discussion Quiz
	Contents	Competitive markets and its characteristics Sunk cost and other concepts in the competitive markets		
14	Objective	Monopoly		Lecture and discussion
	Contents	Fundamental cause of monopoly Welfare cost of monopoly Public policies toward monopolies		
15	Objective	Final Exam		
	Contents	Final Exam		

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Course Number	Class	Course Title				Credit/Hour	Field		
ELE318	01	제어공학	제어공학			3	전공필수		
		Control Engineering				3			
Name		e-mail		Address/Phone		Notes			
HO LIM CHOI		hlchoi@dau.ac.kr		051-200-7734					
Course Introduction	Need for the Course	This class deals with a subject of automatic control of several practical systems.							
	Course Outline								
Course Objective	1. Understand and be able to represent dynamic response. 2. Understand the principles and objectives underlying feedback control, and how these affect the architecture of the control system.								
Preliminary Requisites	Engineering Math 1								
Texts	Main Texts	Feedback Control of Dynamic Systems (7th Edition) Franklin, Powell, Emami-Naeini, Pearson							
	References								
	Useful Websites								
Method of Instruction		Traditional lecture		Problem Based Learning(Discussion method(Havru		Experimental/ Practical	
		Lecture with student participation in problem solution and computer simulation							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total	
		20 %	0 %	0 %	40 %	40 %	0 %	100 %	
	Method	Class Absence : -1%, Late Class : -0.5%							

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Week	Objective and Contents		References	Class Activities
1	Objective	Chpt.1. Overview of automatic control	Textbook & Lecture Note	Lecture
	Contents	- Introduction - An overview and brief history of feedback control		
2	Objective	Chpt. 2. Modeling and Laplace transform	Textbook & Lecture Note	Lecture
	Contents	- Dynamics models - Dynamic response: Laplace transforms		
3	Objective	Chpt. 3. System transfer function and pole locations	Textbook & Lecture Note	Lecture
	Contents	- Dynamic response: System modeling diagram - Dynamic response: Effect of pole locations		
4	Objective	Chpt. 3. Time-domain specification and stability based on pole locations	Textbook & Lecture Note	Lecture
	Contents	- Dynamic response: Time-domain specifications and stability - Review		
5	Objective	Chpt. 4. First analysis of multi-block systems	Textbook & Lecture Note	Lecture
	Contents	- Exam 1 - A first analysis of feedback: Basics		
6	Objective	Chpt. 4. Systems types and PD controls	Textbook & Lecture Note	Lecture
	Contents	- A first analysis of feedback: Steady-state error, System Types - A first analysis of feedback: P and D controls		
7	Objective	Chpt. 4. Design and analysis of PI, PID controls	Textbook & Lecture Note	Lecture
	Contents	- A first analysis of feedback: PI, PID controls - Review for midterm exam		
8	Objective	Midterm Exam	Textbook & Lecture Note	Lecture & Midterm Exam
	Contents	Review and exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Chpt. 5. Basic sketch of root-locus plots	Textbook & Lecture Note	Lecture
	Contents	- Review - The root-locus design method: Basics		
10	Objective	Chpt. 5. Extended sketches of root-locus plots	Textbook & Lecture Note	Lecture
	Contents	- Root-locus design method: Guidelines for root locus - Root-locus design method: Selected illustrations		
11	Objective	Chpt. 5. Usage of root-locus plots for controller design	Textbook & Lecture Note	Lecture
	Contents	- Root-locus design method: Design using dynamic compensation		
12	Objective	Chpt. 5. Review and brief exam.	Textbook & Lecture Note	Lecture
	Contents	- Review - Exam 3		
13	Objective	Chpt. 6. Bode plots - basic	Textbook & Lecture Note	Lecture
	Contents	- Frequency-response design method: Frequency response - Frequency-response design method: Nyquist stability criterion		
14	Objective	Chpt. 6. Bode plots - extension	Textbook & Lecture Note	Lecture & Compensator design problem for students.
	Contents	- Frequency-response design method: Stability margins - Frequency-response design method: Compensation		
15	Objective	Final Exam with review	Textbook & Lecture Note	Lecture & Final Exam
	Contents	Review and exam		

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Course Number	Class	Course Title					Credit/Hour	Field	
ELE320	01	전공필수	전자회로					3	전공선택
		교양필수	Electronic Circuit					3	
Name		e-mail			Address/Phone			Notes	
CHO, Yun Hyun		yhcho@dau.ac.kr			200-7742				
Course Introduction	Need for the Course	The analysis and design technology of electronic circuits must be required to come true the electrical engineering circuit problems. So that, the electronic circuit lecture is needed.							
	Course Outline	This course will be deal with electronic circuits using semiconductor devices such as BJT, FET and SCR and so on.							
Course Objective	This course objects is to teach the analysis and design capability of electronic circuits using with semiconductors.								
Preliminary Requisites	Electronic Engineering, Electronic Circuit I								
Texts	Main Texts	Thomas L. Floyd, "Electronic Devices" , PEARSON							
	References	Robert L, Boylestad, Louis Nashelsky, "Electronic Devices and circuit theory"							
	Useful Websites								
Method of Instruction	Traditional lecture		Traditional lecture						
	Lecture by On line or Off line								
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total	
		10 %	10 %	20 %	30 %	30 %	0 %	100 %	
	Method								

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to Electronic Device	PPT	Lecture
	Contents			
2	Objective	BJT	PPT	Lecture
	Contents	Basic Structure and operation of BJT		
3	Objective	BJT Amplifier	PPT	Lecture
	Contents	Common Emitter, Base and Collector amplifier		
4	Objective	Junction Field Effect Transistors (FETs) I	PPT	Lecture
	Contents	Basic Structure and operation of JFET		
5	Objective	Junction Field Effect Transistors (FETs) II	PPT	Lecture
	Contents	JFET characteristics and parameters, bias		
6	Objective	MOSFET	PPT	Lecture
	Contents	MOSFET characteristic and parameter, bias		
7	Objective	FET Switching Circuit I	PPT	Lecture
	Contents	Common Source Amplifier		
8	Objective	Summary-1 and lecture discussion, Mid-term Exam	Mid-term Exam	
	Contents			

♠ Course Schedule

Week		Objective and Contents	References	Class Activities
9	Objective	FET Switching Circuit II	PPT	Lecture
	Contents	Common Drain Amplifier Common Gate Amplifier		
10	Objective	Frequency Response of Amplifiers I	PPT	Lecture
	Contents	Basic concepts of capacitors Effect of Internal Transistor Capacitances		
11	Objective	Frequency Response of Amplifiers II	PPT	Lecture
	Contents	High Frequency Amplifier Low Frequency Amplifier		
12	Objective	Frequency Response of total amplifier and multistage amplifier	PPT	Lecture
	Contents	Multistage amplifiers		
13	Objective	Operational Amplifier	PPT	Lecture
	Contents	Basic concept of OP		
14	Objective	Operational Amplifier II	PPT	Lecture
	Contents	Types of OP amplifiers I		
15	Objective	Summary-1 and lecture discussion, Final Exam	Final Exam	
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
ENG207	01	영어	영어작문				3	전공선택
		영어	English Composition				3	
Name		e-mail			Address/Phone		Notes	
Sung Ryol Kim		urizen@dau.ac.kr			051-200-7037			
Course Introduction	Need for the Course	To introduce students to the basics of English sentence structure and to develop variety in writing.						
	Course Outline	We will focus on sentence structures so as to give students a strong grip on effective writing style.						
Course Objective	To help students to develop variety in writing style. To enable students to deliver their ideas and opinion in a structured written form.							
Preliminary Requisites	None							
Texts	Main Texts	Basic English Composition						
	References	Suggested occasionally in class.						
	Useful Websites							
Method of Instruction		Traditional lecture		Problem Based Learning(Action Learning		
		Lecture and practice Short sentence drills						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	10 %	30 %	40 %	0 %	100 %
	Method	One percentage point will be deducted from the final grade for every unexcused class hour. Both midterm and final tests must be taken to pass this course.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction		Lecture
	Contents	Different Kinds of Writing		
2	Objective	Adjectives	Textbook	Practice
	Contents	Adjectives that take prepositions Adjective phrases to modify the subject		
3	Objective	Adjectives	Textbook	Practice
	Contents	Adjectives that take infinitives Adjectives + prepositions + gerund		
4	Objective	Nouns	Textbook	Practice
	Contents	Noun + infinitives Noun + preposition + gerund		
5	Objective	Verbs	Textbook	Practice
	Contents	Prepositional verbs Verb + infinitives		
6	Objective	functions of the participle, simultaneous action, close in action	lecture	practice
	Contents	Participle phrases modifying subject		
7	Objective	participle phrases modifying subject	lecture	action learning
	Contents	Participle phrases of reason and result Action Learning		
8	Objective	Midterm exam		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	participle phrases to modify subject and object past participle	lecture	practice
	Contents	using participle phrases to construct sentences modifying subject and object		
10	Objective	using participle phrases to construct descriptive sentences studying models of participle phrases placement of participle phrases	textbook	practice
	Contents	models from famous authors, unscrambling, imitating		
11	Objective	function of appositive phrases placement of appositive phrases	textbook	practice
	Contents	appositive phrase models unscrambling, imitating		
12	Objective	function of the absolute phrase modifying the entire sentence with an absolute phrase	textbook	practice
	Contents	studying models of absolute phrases from famous authors combining		
13	Objective	continuing the study of absolute phrases more models and sentence examples	textbook	PBL 1
	Contents	absolute phrase imitations practice writing Problem-based learning PBL 1		
14	Objective	review of sentences practice, examples from written media	student examples from reading	practice
	Contents	sentence imitations, combinations		
15	Objective	Final exam		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
ENG301	01	영어영문학과	고급영작문				3	전공필수
		영어영문학과	Advanced English Composition				3	
Name		e-mail			Address/Phone		Notes	
Damian Heywood		n01487477@hotmail.com			051-200-6089			
Course Introduction	Need for the Course	This introductory course is designed to develop college-level writing skills, and will focus specifically on learning to build effectively constructed paragraphs into well-organized essays.						
	Course Outline	Reviewing basic sentencings, expanding into logical paragraphing and culminating in writing a full essay.						
Course Objective	Students should be able to organise, research and write an essay by the completion of the course.							
Preliminary Requisites	Be able to write logical sentences and a willingness to put in the work necessary to become a successful written communicator.							
Texts	Main Texts	Folse, Ken, et al. Great Writing 3: From Great Paragraphs to Great Essays. Third Edition. New York: Heinle, 2015.						
	References	My lecture notes						
	Useful Websites							
Method of Instruction				Traditional lecture		Team Based Learning(TBL)		
	Lecture and small group editing.							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	30 %	10 %	20 %	30 %	0 %	100 %
	Method	Paragraphs and Essays.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Course Introduction.		Autobiography (Personal History).
	Contents	Course Introduction.		
2	Objective	Learning logic and structure; topic sentences (main and controlling ideas).	GW3: 2-37	Writing, speaking
	Contents	Unit1: Introduction to Paragraphs. Topic sentences - main and controlling ideas.		
3	Objective	Learning logic and structure; 5 features of topic sentences.	GW3: 2-37	Writing, speaking
	Contents	Unit 1 continued. 5 features of a good topic sentence. Practice more controlling ideas.		
4	Objective	Learning logic and structure; Connecting topic sentences and supporting details	GE3: U1	Writing, speaking
	Contents	Unit 1 continued: Support and exemplification.		
5	Objective	The 5 main elements of a Good paragraph: Purpose, Audience, Clarity, Unity, Cohesion	GW3: 38-63	Writing, speaking
	Contents	Unit 2: Five Elements of Good Writing. Writing purpose statements. Dealing with audience, being clear in your writing.		
6	Objective	Examining different paragraph styles; descriptive to classification. This will be a model for the second half of semester.	GW3: 64-89	Workshop
	Contents	Unit 3: Types of Paragraphs; looking at descriptive, comparison, cause-effect and classification paragraphs.		
7	Objective	Exam Prep. Mid term will be to write a paragraph during the test.		Writing, speaking
	Contents	Exam prep		
8	Objective	Mid-Term Exams		
	Contents	Mid-Term Exams		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Expanding out from paragraphs; Structure and scope	(GW3: 90-113)	Writing, speaking
	Contents	Unit 4: Descriptive Essays: Moving from Paragraph to Essay. Looking at Hooks, connections and thesis statements.		
10	Objective	How to plan and write an essay. Looking at the importance of thinking before doing.		Writing, speaking
	Contents	Unit 4: Descriptive Essays cont'd. Planning and preparation. Outlining. Conclusion.		
11	Objective	How to organise a comparative essay using one of two methodologies.	(GW3: 114-137)	Writing, speaking
	Contents	Unit 5: Comparison Essay. Looking at different ways to organise the materials. Block vs Point-by-point method.		
12	Objective	How to write a good cause-effect essay.	(GW3: 138-163)	Writing, speaking
	Contents	Unit 6: Cause and Effect Essays. Outlining and modelling a cause-effect essay. From paragraph to essay (expansion)		
13	Objective	Classification Essays and when they are used and why they need good organisational skills.	(GW3: 164-189)	Writing, speaking
	Contents	Unit 7: Classification Essays. Topic selection and outlining. Example paragraph to essay ...		
14	Objective	Review and assignment		Writing, speaking
	Contents	Course Review and assignment review. Time in class to polish and proofread		
15	Objective	Correction, sources and final wrap up		Writing, speaking
	Contents	Written Review: Time in class to polish and proofread		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field
ENG302	01	영어회화 II				3	전공선택
		English Conversation II				3	
Name		e-mail			Address/Phone		Notes
Damian Heywood		n01487477@hotmail.com			051-200-6089		
Course Introduction	Need for the Course	Higher level English competency (So YOU MUST HAVE DONE Conversation 1)					
	Course Outline	Building on language and grammar taught in Conversation 1&2. This class is a mid-higher level conversation class with a focus on spoken English.					
Course Objective	To improve students:- 1. spoken fluency, pronunciation, listening, grammar and overall conversational ability. 2. question making and conversation strategies.						
Preliminary Requisites	Conv 1						
Texts	Main Texts	TouchStone 4					
	References						
	Useful Websites						
Method of Instruction	Traditional lecture			Team Based Learning(TBL)		Flipped Learning	
	Pairs, Groups and class discussion, Powerpoint, video and teacher directed, but student focused in language learning and peer correction.						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Total
		10 %	20 %	10 %	30 %	30 %	100 %
Method	Mid-Term and Final exams will be made up of two parts; a central written exam as well as an oral exam.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Basic orientation of course objective and requirements; including Text and examinations.	Syllabus Doc Text	Getting to know you activities Peer activities
	Contents	A.Syllabus Doc B. Conversation Skills and requirements		
2	Objective	Simple and continuous forms of verbs	Text, video/ audio, worksheet/s	Peer-to-peer & group activities
	Contents	Unit1: Interesting Lives A,B,C & Review		
3	Objective	Make comparisons "as...as"& "not as...as" Ask negative Questions	Text, video/ audio, worksheet/s	Peer-to-peer & group activities
	Contents	Unit 2: Personal Tastes A-C & review		
4	Objective	verb + -ing / to + verbs Flipped Learning	Text, video/ audio, worksheet/s	Peer-to-peer & group activities Flipped Learning
	Contents	Unit 3: World Cultures A-C & Review professors and learners interact to carry out advanced learning activities with this Flipped Learning		
5	Objective	"be supposed to", "was /were supposed to" & "was / were going to"	Text, video/ audio, worksheet	Peer-to-peer & group activities
	Contents	Unit 4: Socializing A-C & Review		
6	Objective	Review & Catchup	Text, Review Sheet	Test Review
	Contents	Review & Catchup		
7	Objective	Oral Exam	Oral Exam	Oral Exam
	Contents	5-10 min Oral examination: 1. Peer-to-peer 2. Teacher - student		
8	Objective	Central Examination Week	Central Examination Week	Central Examination Week
	Contents	Central Examination Week		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Causative get and have, Need + passive infinitive or need + verb + -ing	Text, Audio/Video	Peer-to-Peer and group activities
	Contents	Unit 7: Problem solving A-C		
10	Objective	would have, should have and speculation	Text, Audio/Video	Peer-to-Peer and group activities
	Contents	Unit 8: Behaviour A-C & Review		
11	Objective	If clauses with past perfect	Text, Audio/Video	Peer-to-Peer and group activities
	Contents	Unit 10: Fame A-C & review		
12	Objective	What clauses	Text, Audio/Video	Peer-to-Peer and group activities
	Contents	Unit 12: Careers A-C & Review		
13	Objective	Job Interviewing techniques and resume	Text, Audio/Video	Peer-to-Peer and group activities
	Contents			
14	Objective	Oral Exam	Oral Exam	Oral Exam
	Contents	Oral Exam 5-10 min Oral examination: 1. Peer-to-peer 2. Teacher - student		
15	Objective	Central Examination Week	Central Examination Week	Central Examination Week
	Contents	Central Examination Week		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title		Credit/Hour	Field
ENG317	01	영미희곡		3	전공선택
		British and American Drama		3	
Name		e-mail		Address/Phone	Notes
Sung Ryol Kim		urizen@dau.ac.kr		051-200-7037	

Course Introduction	Need for the Course	Through the reading and viewing of British-American drama, students will be able to understand British-American culture. Moreover, students will learn English through drama in various contexts.						
	Course Outline	This course will cover Samuel Beckett's Waiting for Godot, Peter Shaffer's Equus, Arthur Miller's Death of a Salesman, and Tennessee Williams's A Streetcar Named Desire. Through the study of these dra						
Course Objective	Students will learn about important trends in British-American culture. Through the study of these dramas, students will develop and broaden their understanding of the English language.							
Preliminary Requisites								
Texts	Main Texts	Modern British-American Drama (Yo Bok Yoon, Dong-A University Press, 2003 DVD						
	References	York Notes						
	Useful Websites							
Method of Instruction	Traditional lecture		Havruta		Team Based Learning(TBL			
	Lecture, Discussion, Presentation, Student Responses to Questions							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	20 %	10 %	30 %	30 %	0 %	100 %
	Method	For every unexcused absence, one percentage point will be deducted from the attendance grade. Only officially recognized absences from the university will be accepted.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to Drama	Textbook	Lecture
	Contents	Examination of Drama as a Literary Genre		
2	Objective	A Streetcar Named Desire	Textbook	Lecture, DVD viewing
	Contents	Contextual Material on Streetcar Scenes 1-5		
3	Objective	A Streetcar Named Desire	Textbook	Lecture, DVD viewing
	Contents	Reading Scenes 6-11 and analysis		
4	Objective	A Streetcar Named Desire	Textbook	Lecture and Discussion
	Contents	Symbols and Themes Discussion of Significance		
5	Objective	Death of a Salesman	Textbook	Lecture and DVD viewing
	Contents	Contextual Material on Miller Analysis of first half of the play		
6	Objective	Death of a Salesman	Textbook	Lecture and DVD viewing
	Contents	Analysis of second half of the play		
7	Objective	Death of a Salesman	Textbook	Lecture and Discussion
	Contents	Symbols and Themes Discussion of Significance		
8	Objective	Midterm Exam		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Waiting for Godot	Textbook	Lecture and DVD viewing
	Contents	Contextual Material on Beckett Analysis of first half of play		
10	Objective	Waiting for Godot	Textbook	Lecture and DVD viewing
	Contents	Analysis of second half of play		
11	Objective	Waiting for Godot	Textbook	DVD viewing and discussion
	Contents	Symbols and Themes Discussion of Significance		
12	Objective	Equus	Textbook	Lecture
	Contents	Contextual Material on Shaffer Analysis of first half of play		
13	Objective	Equus	Textbook	Lecture and DVD viewing
	Contents	Analysis of second half of play		
14	Objective	Equus	Textbook	Lecture and DVD viewing
	Contents	Symbols and Themes Discussion of Significance		
15	Objective	Final Exam		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
ENG409	01	학점	TESOL				3	전공선택
		교과	TESOL				3	
Name		e-mail			Address/Phone		Notes	
NAM HYUN JEONG		hynam2016@dau.ac.kr			051-200-7056			
Course Introduction	Need for the Course	Students should be equipped with up-to-date theories of language teaching and a wide range of practical teaching ideas.						
	Course Outline	This course is designed to provide students with teaching techniques and methodologies.						
Course Objective	This course has two main objectives: to understand major teaching methods and approaches and to apply them to the student' s own class.							
Preliminary Requisites	The working language of this class is English. This means all official aspects of the course including all assignments, presentations and in-class discussion will be conducted in English.							
Texts	Main Texts	Harmer J. (2007). How to teach English. Essex; England, Pearson Education Limited						
	References							
	Useful Websites	profnam.weebly.com						
Method of Instruction	Traditional lecture		Team Based Learning(TBL)		etc			
	Various approaches will be employed in the classroom. Direct lecturing will be kept to a minimum while group work, in-class activities, presentations, and direct and indirect questioning will be stressed.							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		20 %	10 %	0 %	30 %	30 %	10 %	100 %
	Method	Attendance 20% Participation 10% Assignments (Micro-teaching) 10% Midterm 30% Final exam 30%						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction/ Learners		Lecture and group discussion
	Contents	Introductions to the course, to the materials, instructor, assignments, and everything else.		
2	Objective	Chapter 1& 2		Lecture, group discussion, and micro-teaching
	Contents	Learners Teachers		
3	Objective	Chapter 2& 3		Lecture, group discussion, and micro-teaching
	Contents	Teachers Managing the classroom		
4	Objective	Chapter 4		Lecture, group discussion, and micro-teaching
	Contents	Describing learning and teaching		
5	Objective	Chapter 5		Lecture, group discussion, and micro-teaching
	Contents	Describing language		
6	Objective	Chapter 6		Lecture, group discussion, and micro-teaching
	Contents	Teaching the language system		
7	Objective	Chapter 7		Lecture, group discussion, and micro-teaching
	Contents	Teaching reading		
8	Objective	Midterm Exam		
	Contents	Midterm Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Chapter 8		Lecture, group discussion, and micro-teaching
	Contents	Teaching writing		
10	Objective	Chapter 10		Lecture, group discussion, and micro-teaching
	Contents	Teaching listening		
11	Objective	Chapter 9		Lecture, group discussion, and micro-teaching
	Contents	Teaching speaking		
12	Objective	How to Integrate four language skills		Lecture, group discussion, and micro-teaching
	Contents	How to Integrate four language skills		
13	Objective	Chapter 12		Lecture, group discussion, and micro-teaching
	Contents	Planning lessons		
14	Objective	Chapter 13 & 14		Lecture, group discussion, and micro-teaching
	Contents	Testing What if?		
15	Objective	Final exam		
	Contents	Micro-teaching		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
GBS317	01	학부	국제경영론				3	전공필수
		학과	International Business				3	
Name		e-mail				Address/Phone		Notes
RHEE YANG POK		yprhee@dau.ac.kr				051-200-8718		
Course Introduction	Need for the Course	As globalization expands, international business becomes a key attention. Global business students are required to understand international business disciplines which is a core domain in management. In particular, they should acknowledge not only a globally dynamic business environments such as political, economic, legal and culture, but also international business strategy and operation in foreign markets with practical global mindsets.						
	Course Outline	Based on understanding the global business environments, this course provides key concepts, theory and practical techniques for internationalization, global business environments, foreign market entry strategy, and global operation policy. In addition, localization and subsidiaries management are also discussed.						
Course Objective	This course is designed to provide conceptual and analytical framework that would guide potential managers of an international or multinational firms to formulate and implement effective international business strategy and operations. The course focuses on providing basic understanding of the international economic and business environments in an increasingly globalizing world, and introducing some of the important strategic and organizational issues that firms face in international business. The objectives of this course is to 1) understand globalization, MNE, and international business topics.							
Preliminary Requisites	Principle of Management							
Texts	Main Texts	Global Business Today(10e) Charles Hill & Hult, McGraw-hill. 국제경영(박철순 외, McGraw-Hill, 2018)						
	References	International Business: The new realities. (Cavusgil, Knight, Riesenberger, 3e, Pearson) International Business: The Challenges of Globalization, (John Wild, 8e, Pearson) 글로벌경영(장세진, 박영사, 2019)						
	Useful Websites	www.globaleledge.msu.edu www.kotra.or.kr						
Method of Instruction	Traditional lecture							
	Lecture with class note Discussion							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	5 %	25 %	0 %	30 %	30 %	10 %	100 %
	Method	-Grade: based on University policy & rule -Attendance(5) : Strictly class attendance management(0.5 point deduction per absence) -Report(25): Final assignment(15)-Business Plan (Team Paper), Case Assignment (10)-Business case summary -Exam(60) Midterm 30 and Final 30: Essay, Multiple choice, Short Answer, True/false questions						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction & Class Overview	Class note	Student Feedback
	Contents	Class Orientation: Course objectives, evaluation, assignment, Course Schedules Review Basic Concepts of Strategic Management		
2	Objective	Globalization, MNE and IB(International Business)	Ch 1 Class note	Lecture/Discuss Case Analysis
	Contents	What is the IB(international business)? Drivers of Globalization, Key topics of International Business		
3	Objective	National Difference in Political economy	Ch 2,3 Class note	Lecture/Discuss Case Analysis
	Contents	Foreign market risk, opportunity and attractiveness Difference in Political, Economic, legal system		
4	Objective	National Difference in Culture	Ch 4 Class note	Lecture/Discuss
	Contents	Role and Determinants of culture Hofstede Culture Difference Model Impacts on International Business		
5	Objective	National Difference in Ethics & Sustainability	Ch 5 Class note	Lecture/Discuss Case Analysis
	Contents	Ethical Issues in International Business Social Responsibility and Sustainability		
6	Objective	International Trade Theory	Ch 6 Class note	Lecture/Discuss
	Contents	How to explain international trade? Classical/new Trade Theories, National Competitiveness		
7	Objective	Government policy and International trade	Ch 7 Class note	Lecture/Discuss Case Analysis
	Contents	What are the roles of government in trade? Instruments of trade policy, World trading systems(WTO)		
8	Objective	Mid-term Exam		
	Contents	Test		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Foreign Direct Investment	Ch 8 Class note	Lecture/Discuss
	Contents	How to explain the foreign direct investment? Motives of FDI, Theories of FDI, Government Policies		
10	Objective	Regional Economic Integration	Ch 9 Class note	Lecture/Discuss
	Contents	Which types of international cooperation? Level, Trends and cases of Economic Integration		
11	Objective	Global Financial System	Ch 10,11 Class note	Lecture/Discuss
	Contents	Exchange rate, Foreign market, International Monetary system		
12	Objective	Foreign Market Entry	Ch 13 Class note	Lecture/Discuss Case Analysis
	Contents	Decisions for market entry, Market entry modes, Greenfield vs. acquisition, Joint venture		
13	Objective	Strategy in International Business	Ch 12 Class note	Lecture/Discuss
	Contents	Strategy concepts, Global Business Strategy Model, Operation structure Global strategy cases		
14	Objective	Business Case Analysis & Business Plan	Case Class note	Lecture/Discuss Overall wrap up & Presentation
	Contents	Team Presentation, Team project review, Q&A		
15	Objective	Final Exam		
	Contents	Test		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field
GBS326	01	간편 영어	비즈니스영어 II			3	전공선택
			Business English II			3	
Name		e-mail			Address/Phone		Notes
CHOE WOOK KYUNG		regina1004@dau.ac.kr			051-200-1022		
Course Introduction	Need for the Course	This course is designed for students to learn English skills that are required when they apply jobs and after they get jobs. Specifically, they learn essential English expressions for various business situations such as job searching, meetings, writing emails, etc.					
	Course Outline	This course helps students learn and memorize vocabulary and expressions that are useful for various types of business English. Students will listen and read multiple English communication and business documents as well as practice various types of business English speaking and write resumes and cover letters.					
Course Objective	The purpose of this course is for students to better understand different types of business writings and speakings. Another goal of this course is to make students familiarize and memorize vocabulary and expressions that are frequently used in business settings in order to enhance students' writing and speaking skills. This course also aims to be familiar and proficient in business English.						
Preliminary Requisites							
Texts	Main Texts	International Express, Intermediate (3rd Ed.). Harding K. & Lane, A. 2019. Oxford University Press.					
	References	Cambridge English for Job-hunting. Downes, C. 2015. Cambridge University Press. General Business 비즈니스 일상영어. Kim, G. 2008. 다락원. Office Matters 오피스 실무영어. Williams, I. (양지훈 역). 2015. 이다새.					
	Useful Websites						
Method of Instruction	Traditional lecture						
	lecture, discussion, presentation, question and answer						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.
		15 %	20 %	15 %	25 %	25 %	0 %
	Method	Details with respect to each grading criterion will be announced with syllabus supplement on the first day of the class					
		Total					

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction		Lecture, group discussion
	Contents	Introducing the course, Introducing the course, and brief self-introduction		
2	Objective	Making Connections	Unit 1	Lecture, group discussion, Q & A
	Contents	present simple, social networks and the internet writing professional profile		
3	Objective	International design	Unit 2	Lecture, group discussion, Q & A
	Contents	past simple, present perfect, phrasal verbs team meeting skills		
4	Objective	future lifestyle & job searching	Unit 3 Unit 1 (CJ)	Lecture, group discussion, Q & A
	Contents	future tenses, describing cause and effects Research and preparation for job searching		
5	Objective	CV and Cover letter	Unit 2, Unit 3 (CJ)	Lecture, group discussion, Q & A
	Contents	formats for CV and Cover letter Words and Expressions for good CV and cover letter		
6	Objective	CV and Cover letter II	Unit 2, Unit 3 (CJ)	Lecture, group discussion, Q & A
	Contents	Writing your own CV and Cover letter		
7	Objective	work style and careers	Unit 7	Lecture, group discussion, Q & A
	Contents	conditionals, money vocabulary, writing job application emails		
8	Objective	Midterm exam		Midterm
	Contents	Wrap-up and Midterm		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Unit 4 - Heritage	Unit 4	Lecture, group discussion, Q & A
	Contents	making comparisons, participles, giving advice and suggestions		
10	Objective	The business of sport	Unit 9	Lecture, group discussion, Q & A
	Contents	Relative clauses, describing personal qualities at work, job interview skills		
11	Objective	Job Interview	Unit 4 (CJ)	Lecture, group discussion, Q & A
	Contents	Useful expressions for job interview Understand good job interview		
12	Objective	Fashion and function	Unit 5	Lecture, group discussion, Q & A
	Contents	Modal verbs, color and the idioms, prefixes, giving opinions		
13	Objective	Job interview		Presentation, group discussion, Q & A
	Contents	Individual job interviews based on your CV and cover letter		
14	Objective	Unit 8 - Process	Unit 8	Lecture, group discussion, Q & A
	Contents	passives, time management, checking understanding and clarifying		
15	Objective	Wrap-up & Final exam		Lecture, group discussion, Q & A
	Contents	Summary, Question and answer, Final exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
HCS214	01	H001	신경정신과학				3	전공필수
		H002	Neuroscience				3	
Name		e-mail			Address/Phone		Notes	
LEE EUN YOUNG		enyoungee@dau.ac.kr			051-200-7924			
Course Introduction	Need for the Course	It is tremendously important to understand the role of neuroscience in normal and abnormal human behaviors in order to plan better health care services.						
	Course Outline	It is tremendously important to understand the role of neuroscience in normal and abnormal human behaviors in order to plan better health care services. In this class, students will learn organization of the nervous system, learn roles of neurotransmitter and hormones in mental health, and learn mechanisms and treatment methods of individual neuropsychiatric disorders						
Course Objective	1. Learn organization of the nervous system 2. Learn roles of neurotransmitter and hormones in brain functions 3. Learn mechanisms of individual neuropsychiatric disorders							
Preliminary Requisites	Brain and Behavior							
Texts	Main Texts	Comer, R. J. (2018). Abnormal psychology. Macmillan.						
	References	Higgins, E. S., & George, M. S. (2018). Neuroscience of clinical psychiatry: the pathophysiology of behavior and mental illness. Wolters Kluwer.						
	Useful Websites							
Method of Instruction	020 Class(On-Offline mi		etc					
	020(combined on/off-line class)							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	0 %	0 %	35 %	35 %	20 %	100 %
	Method	etc = Student Presentation: Students are required to give a presentation on a selected topic.						

♠ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Course Overview		Lectures followed by Q & A and discussion sessions
	Contents	1. Course Overview 2. The Organization of the Nervous System		
2	Objective	To understand the organization of the Nervous System	Chapter 2; Reference text: chapter 1-4	Lectures followed by Q & A and discussion sessions
	Contents	The Organization of the Nervous System		
3	Objective	To understand communication between neurons: Students will understand the organization and functions of the neurons	Chapter 3	Lectures followed by Q & A and discussion sessions
	Contents	1. Neurons: structure and electrical activity 2. Cells and Circuits		
4	Objective	Students will understand and be able to describe how the communication processes between neurons work.	Chapter 4-5	Lectures followed by Q & A and discussion sessions
	Contents	1. Neurotransmitter systems a) functions of the neurotransmitters b) types of the neurotransmitters 2. Receptors and signaling the nucleus		
5	Objective	Students will be able to describe functions of hormones and their relationship with brain functions.	Chapter 7	Lectures followed by Q & A and discussion sessions
	Contents	1. Functions of the Hormones 2. Types of the hormones 3. Relationship between the hormones and the brain		
6	Objective	At the end of the class, students will be able to describe the relationship between brain and neuropsychiatric Disorders (Schizophrenia)	14	Lectures followed by Q & A and discussion sessions
	Contents	Neuropsychiatric Disorders: Schizophrenia 1. concept 2. diagnosis criteria 3. neural correlates 4. Role of neurotransmitters and hormones		
7	Objective	At the end of the class, students will be able to describe the relationship between brain and neuropsychiatric Disorders (anxiety disorders).	Chapter 5	Lectures followed by Q & A and discussion sessions
	Contents	Neuropsychiatric Disorders: anxiety disorders 1. concept of anxiety disorders 2. diagnosis criteria for anxiety disorders 3. neural correlates of anxiety disorders		
8	Objective	The mid-term exam will be administered based on study materials.		
	Contents	Mid-Term Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	At the end of the class, students will be able to describe the relationship between brain and neuropsychiatric Disorders (anxiety disorders).	Chapter 6	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Neuropsychiatric Disorders: Trauma and Stress 1. concept 2. diagnosis criteria 3. neural correlates 4. Role of neurotransmitters and hormones		
10	Objective	At the end of the class, students will be able to describe the relationship between brain and neuropsychiatric Disorders (depression).	Chapters 7-8	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Neuropsychiatric Disorders: Depression 1. concept of depressive disorders 2. diagnosis criteria for depression 3. neural correlates of depression 4. Role of neurotransmitters and hormones in depression		
11	Objective	Students will be able to describe how pleasure system works including neural correlates of pleasure.	Chapter 12	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	1. Concept of pleasure 2. Neural mechanisms of pleasure 3. Mental/brain disorders related to processing pleasure		
12	Objective	Understand Substance Use and Addictive Disorders	Chapter 12	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Substance Use and Addictive Disorders 1. concept 2. diagnosis criteria 3. neural correlates 4. Role of neurotransmitters and hormones		
13	Objective	Students will be able to describe neural mechanisms of anger and aggression and mechanism of related mental disorders.	Chapter 16	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	1. Concept of anger and aggression 2. Neural mechanisms of anger and aggression 3. Mental disorders related to handling anger and aggression		
14	Objective	At the end of the class, students will be able to describe the relationship between brain and various neuropsychiatric Disorders such as Personality disorders.	chapters 21-23	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Neuropsychiatric Disorders 1. concept of neuropsychiatric disorders 2. diagnosis criteria for neuropsychiatric disorders 3. neural correlates of neuropsychiatric disorders 4. Role of neurotransmitters and hormones in neuropsychiatric		
15	Objective	The final exam will be administered based on study materials from the entire semester.		
	Contents	Final Exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
HCS325	01	학점	뇌기능측정및재활				3	전공선택
		영어	Assessment and Rehabilitation of Brain Functions				3	
Name		e-mail			Address/Phone		Notes	
LEE EUN YOUNG		enyoungee@dau.ac.kr			051-200-7924			
Course Introduction	Need for the Course	It is tremendously important to acquire broad background knowledge and specific skills on assessment methods of brain functions in order to better serve health care systems.						
	Course Outline	In this class, students will learn neuroanatomy, functions of human brain, and assessment methods of brain functions. Furthermore, students will learn brain' s plasticity and ways to improve brain functions.						
Course Objective	1. Learn Neuroanatomy 2. Learn functions of human brain 3. Assessment methods of brain functions 4. Neuropsychological tests as assessment tools for brain functions 5. Understand neural plasticity and ways to improve brain functions							
Preliminary Requisites	Brain and Behavior							
Texts	Main Texts	Kolb, B., Whishaw, I.Q. (2015) Fundamentals of Human Neuropsychology (7thEdition).NewYork:Worth.						
	References	Lezak, M. D., Howieson, D. B., Loring, D. W., & Fischer, J. S. (2004). Neuropsychological assessment						
		http://brain.mcmaster.ca/BrainBee/Neuroscience.Science.of.the.Brain.pdf						
	Useful Websites	http://casemed.case.edu/clerkships/neurology/web%20neurorad/mri%20basics.htm						
Method of Instruction		020 Class(On-Offline mi		Flipped Learning		Experimental/ Practical		Team Based Learning(TBL
		020 (on/off mixed), Flipped Learning/practicum						
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	10 %	15 %	0 %	30 %	30 %	15 %	100 %
	Method	etc: Student Presentation						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to the course: Brief overview of Neuroanatomy	chapter 1	Lecture followed by Q & A and discussion sessions
	Contents	Course Overview		
2	Objective	To understand the organization of the brain: Structures and the functions of the occipital cortex	chapter 15	Lecture followed by Q & A and discussion sessions
	Contents	Structures and the functions of the occipital cortex - Visual processing		
3	Objective	To understand the organization of the brain: Structures and the functions of the parietal cortex	Chapter 14	Lecture followed by Q & A and discussion sessions
	Contents	Structures and the functions of the parietal cortex - Visuospatial perception		
4	Objective	To understand the organization of the brain: Structures and the functions of the temporal cortex	Chapter 13	Lecture followed by Q & A and discussion sessions
	Contents	Structures and the functions of the temporal cortex: - Learning and Memory		
5	Objective	To understand the organization of the brain: Structures and the functions of the temporal cortex	Chapter 13	Lecture followed by Q & A and discussion sessions
	Contents	Structures and the functions of the temporal cortex - Auditory processing and Language functions		
6	Objective	To understand the organization of the brain: Structures and the functions of the frontal cortex	chapter 16	Lecture followed by Q & A and discussion sessions
	Contents	Structures and the functions of the frontal cortex Executive function		
7	Objective	To understand the organization of the brain: Structures and the functions of the frontal cortex		Lecture followed by Q & A and discussion sessions
	Contents	Practice Frontal Assessment Battery		
8	Objective	Mid-Term Exam		
	Contents	Mid-Term Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	To learn brain functions and the assessment tools	Chapter 22	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	brain functions and the assessment tools: Processing speed/Attention and working memory		
10	Objective	To learn brain functions and the assessment tools	Chapter 9	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Motor skills		
11	Objective	- Understand the organization of the brain: Structures and functions of the cerebellum - Learn brain functions and the assessment tools		Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	- Structures and functions of the cerebellum - Cerebellum assessment test		
12	Objective	To learn cognitive assessment tools	Intelligence Tests: The Wechsler Adult Intelligence Scale (WAIS)	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Intelligence Tests to assess general brain functions		
13	Objective	To learn cognitive assessment tools	https://www.alz https://www.moc file:///C:/User	Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	Global Cognition measure: MMSE & MoCA		
14	Objective	- Understand neural plasticity - Neural rehabilitation methods		Lecture followed by Q & A and discussion sessions + Student Presentations
	Contents	- Understand neural plasticity - Neural rehabilitation methods		
15	Objective	Final Exam		
	Contents	Final Exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title			Credit/Hour	Field		
ITD214	01	가상대학	무역영어			3	전공필수	
		영어	Business English			3		
Name		e-mail			Address/Phone		Notes	
CHOI KATE KOEUN		katechoi@dau.ac.kr			051-200-7491			
Course Introduction	Need for the Course	In today' s global business world, being able to communicate in English has become a must.						
	Course Outline							
Course Objective	To gain basic understanding in the field of Business English. Various cases will be discussed in the class to obtain practical knowledge in the field. Lectures will be held in English only.							
Preliminary Requisites	Students MUST read the lecture notes before coming to class. (There may be surprise quizzes)							
Texts	Main Texts	There is NO TEXTBOOK assigned to this course. Instead, lecture notes will be uploaded on LMS (가상대학) before every class.						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		Havruta					
	Lecture and Discussion							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		15 %	0 %	10 %	25 %	25 %	25 %	100 %
	Method	1. Attendance: 15% 2. Participation: 10% 3. Mid-term Exam: 25% 4. Final Exam: 25% 5. Quiz: 25% (2 quizzes)						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction		
	Contents	- Introduction to Course - Introduction to Business English		
2	Objective	Business Presentation		
	Contents	- Introduction - Structure - Examples & Expressions		
3	Objective	Business Presentation (continued)		
	Contents	- Introduction - Structure - Examples & Expressions		
4	Objective	Business Conversation (1)		
	Contents	- Honorific Language		
5	Objective	Business Conversation (2)		
	Contents	- International Conference		
6	Objective	Business Conversation (3)		
	Contents	- Business Tele-Conversation		
7	Objective	Business Conversation (3) (continued)		
	Contents	- Business Tele-Conversation - REVISION FOR MID-TERM EXAM		
8	Objective	MID-TERM EXAM		
	Contents			

♠ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Business Writing (1)		
	Contents	- Introduction to Business Writing		
10	Objective	Business Documents		
	Contents	- Different Business Document Types - Format of a Business Letter		
11	Objective	Business Documents (continued)		
	Contents	- Different Business Document Types - Format of a Business Letter		
12	Objective	Business Writing (2)		
	Contents	- Price Increase - Introducing a Product - Business Proposal to Buy		
13	Objective	Business Writing (3)		
	Contents	- Credit Inquiry - Offer		
14	Objective	Business Writing (3) (continued)		
	Contents	- Credit Inquiry - Offer - REVISION FOR FINAL EXAM		
15	Objective	FINAL EXAM		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number		Class	Course Title				Credit/Hour	Field
LAN225	01	전공필수	조경생태학				3	전공선택
		교양필수	Landscape Architecture Ecology				3	
Name		e-mail			Address/Phone		Notes	
GI CHUL YI		gcyi@dau.ac.kr						
Course Introduction	Need for the Course	Pollution and the natural environment in the process of urbanization has brought destruction. But the 21st century, higher quality living environment is pursuing. In this spirit, it is important to le						
	Course Outline	The first lesson Learn the basic theory of ecology. And the lessons learned information related to the planning and ecological restoration through bio-based.						
Course Objective	This course will be conducted focusing on restoration and conservation of ecological concepts, learning lessons ecosystem ecological point of view.							
Preliminary Requisites								
Texts	Main Texts	Fundamentals of Ecology, Odum, W.B. Souders Company						
	References	Systems Ecology, Odum, John Wiley & Sons An Young-Hee(2011), Ecology for Landscape Architecture, Taerim Kameyama Akira (2010) Nature Play - Ecological Engineering Approach, per Article Kwon Tae-ho						
	Useful Websites							
Method of Instruction		Traditional lecture						
		lecture, discussion, field trip						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	5 %	30 %	40 %	5 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Learning objectives and progress of this course		lecture and discussion
	Contents	1. A description of the goals and progress of course 2. Environmental ecology basic theory		
2	Objective	Ecosystems and landscapes		lecture and discussion
	Contents	1. What is ecology? 2. Environmental Ecology 3. Landscape Ecology		
3	Objective	Human environment and environmental problems		lecture and discussion
	Contents	Human environment and environmental problems		
4	Objective	Basic ecology 1		lecture and discussion
	Contents	1. Ecosystem 2. Population 3. Biotic Community and ecosystem		
5	Objective	Basic ecology 2		lecture and discussion
	Contents	4. Ecosystem interactions 5. Ecological succession 6. Material cycle of the ecosystem		
6	Objective	global ecology		lecture and discussion
	Contents	1. Rainforest destruction and desertification 2. Global Warming 3. Ozone depletion and acidification Biodiversity		
7	Objective	field trip 1		survey
	Contents	Ulsukdo ecology park		
8	Objective	midterm		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Field trip		lecture
	Contents	Introduction to field survey		
10	Objective	Ecosystem restoration and conservation 1		lecture and discussion
	Contents	1. Ecosystem Conservation Planning and Design		
11	Objective	Ecosystem restoration and conservation 2 Field trip of sunheon garden		lecture and discussion
	Contents	2. Plan corridors 3. conservation and planting Field trip of sunheon garden		
12	Objective	Urban Ecology 1		lecture and discussion
	Contents	1. urban ecosystem characteristics 2. Urbanization and Environmental Characteristics		
13	Objective	Urban Ecology 2		lecture and discussion
	Contents	3. The improvement of urban ecological 4. Wind Road of the Urban		
14	Objective	field trip 2		survey
	Contents	Galmaekgil		
15	Objective	final exam		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT201	01	개론	해석학				3	전공필수
		고급	Analysis				3	
Name		e-mail			Address/Phone		Notes	
Kwon Young-Sam		ykwon@dau.ac.kr			051-200-7210			
Course Introduction	Need for the Course	We need calculus for this class and also we need to study mathematics for high school level						
	Course Outline	I will introduce the basic materials of analysis and basic materials to study mathematics of college level						
Course Objective	We will introduce basic materials of basic analysis, real number, sequence, limits, continuity, and differentiation in the level of college							
Preliminary Requisites	analysis, calculus							
Texts	Main Texts	Introduction to analysis by wade						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		Flipped Learning		Problem Based Learning(Traditional lecture	
	Lecture, PBL 1, Flipped Learning and disscussion							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	10 %	10 %	10 %	35 %	35 %	0 %	100 %
	Method	Attendance, Homework, Mid and final exam						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	The notion of Real number and review on the calculus Fliped learning introduction		lecture
	Contents	basic notion of real number, in particular, field axiom, complete axiom, and order axiom Fliped learning introduction		
2	Objective	real number		lecture
	Contents	We will study the basic order and complete axiom and applications		
3	Objective	sequenced		lecture
	Contents	we will study the notion of limits of sequence, limit theorem		
4	Objective	sequence		lecture
	Contents	We will study the notion of bolzano-wierestrass theorem, cauchy sequece		
5	Objective	funtion		lecture
	Contents	We will define limit of funtions and several properties		
6	Objective	funtion		lecture
	Contents	We will introduce the notion of continous funtion, uniform continuity and applications		
7	Objective	dervative		lecture
	Contents	We will introduce the definition of Definition of derivative		
8	Objective	Midtrerm exam		
	Contents	We will give midterm exam and disscusion session		

♠ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	derivative		lecture
	Contents	We will introduce the notion of mean value theorem, Taylor's theorem and some properties		
10	Objective	integration		lecture
	Contents	We will study the definition of Riemann integration and some properties		
11	Objective	integration		lecture
	Contents	We will study the fundamental theorem and improper integral. We give the exact proofs		
12	Objective	series		lecture
	Contents	We introduce the notion of series and convergence of series		
13	Objective	series		lecture
	Contents	We will study absolute convergence and test of convergence		
14	Objective	infinite series of functions		lecture
	Contents	We will introduce the notion of uniform convergence of sequence functions, series functions		
15	Objective	infinite series of function		lecture
	Contents	We will introduce the notion of power series, analytic function		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT202	01	위상수학	위상수학			3	전공필수	
		Topology	Topology			3		
Name		e-mail			Address/Phone		Notes	
Hwang Kyung-Won		khwang@dau.ac.kr			051-200-7208			
Course Introduction	Need for the Course	They learn basic concept about topology and learn also several theoretical concept of topology.						
	Course Outline	Open set, closed set, continuous, connnected, compact						
Course Objective	They learn why we learn in the topology and topological concept. They also learn several theoretical problems							
Preliminary Requisites	They need to learn continuos concept and set theory							
Texts	Main Texts	principle of topology Author: Fred H. croom						
	References	General topology Author: james Munkres						
	Useful Websites							
Method of Instruction	Traditional lecture			etc				
	I will give teaching, homework, quizzes, exams							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	5 %	5 %	10 %	40 %	40 %	0 %	100 %
	Method	attendance-5% midterm exam-40% homework-5% Final exam-40% Quizzes-10%						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	They learn Open sets, closed sets	book	teaching
	Contents	Open sets, closed sets		
2	Objective	They learn metric space, topology	book	teaching
	Contents	metric space, topology		
3	Objective	They learn interior, closure, boundary, continuous	book	teaching
	Contents	interior, closure, boundary, continuous		
4	Objective	They learn homeomorphic, subspace,	book	teaching, homework
	Contents	homeomorphic, subspace,		
5	Objective	They learn complete metric spaces, nowhere dense, first category, second category	book	teaching
	Contents	complete metric spaces, nowhere dense, first category, second category		
6	Objective	They learn Baire category theorem, contraction lemma dense, isometric embedding	book	teaching
	Contents	Baire category theorem, contraction lemma dense, isometric embedding		
7	Objective	They learn basis, subbasis, topological invariant	book	teaching
	Contents	basis, subbasis, topological invariant		
8	Objective	They learn relative topology and take exam	book	teaching midterm exam
	Contents	relative topology, exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	They learn hausdorff space, Zariski topology	book	teaching
	Contents	hausdorff space, Zariski topology		
10	Objective	They learn connected, disconnected, seperated sets, topological sine curve	book	teaching, homework
	Contents	connected, disconnected, seperated sets, topological sine curve		
11	Objective	They learn component, totally disconnected, intermidiate value theorem	book	teaching
	Contents	component, totally disconnected, intermidiate value theorem		
12	Objective	They learn fixed point theorem, path connected, locally connected, locally path connected	book	teaching, quiz
	Contents	fixed point theorem, path connected, locally connected, locally path connected		
13	Objective	They learn compact, finite intersection property, cantor' theorem, lindelof theorem	book	teaching
	Contents	compact, finite intersection property, cantor' theorem, lindelof theorem		
14	Objective	They learn one point compactification, product	book	teaching
	Contents	one point compactification, product,		
15	Objective	They learn quotient spaces and take exam	book	teaching, final exam
	Contents	quotient spaces , exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title					Credit/Hour	Field	
MAT206	01	선형대수						3	전공선택
		Linear Algebra						3	
Name		e-mail			Address/Phone			Notes	
Hwang Kyung-Won		khwang@dau.ac.kr			051-200-7208				
Course Introduction	Need for the Course	Linear Algebra is used to explain the economics and social phenomina. It is very useful.							
	Course Outline	It deal with properties of Euclid space and properties and application of linear space. It also deal with properties of matrix, trasfomation, Eigenvalue , Eigenvector, decomposition of matrix.							
Course Objective	They will learn application using several properties of linear algebra.								
Preliminary Requisites	It is enough to know mathematical knowledge in the high school.								
Texts	Main Texts	Title of book:Linear algebra(2nd Edition) Author: David Poole Publisher:Brooks/cole cengage learning							
	References	Title of book: Elementary Linear algebra with supplementary applications Author: Howard Anton, Chris Rorres Publisher:Wiley							
	Useful Websites								
Method of Instruction	Traditional lecture		Problem Based Learning(Flipped Learning				
	Lecture, homework, quizzes, problem based learning, flipped learning								
Evaluation	Perce ntage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total	
		5 %	5 %	10 %	40 %	40 %	0 %	100 %	
Method	I will addd behavior in the class, attendance, homework, quizzes, midterm exam, final exam.								

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	They will learn Euclid space. Fliped learning introduction	book	lecture, Fliped learning
	Contents	vector, linear combination Fliped learning introduction and guidance by applying theory of process of education		
2	Objective	They will learn determinants	book	lecture
	Contents	determinants, transformation		
3	Objective	They will learn expansion of Laplace and application of determinant.	book	lecture
	Contents	expansion of Laplace, Cramer's rule		
4	Objective	They will learn examples of matrices.	book	lecture, homework Problem-based learning
	Contents	square matrix, triangular matrix.		
5	Objective	They will learn basic transformation of matrix.	book	lecture
	Contents	basic transformation, Gauss elimination		
6	Objective	They will learn linear mapping.	book	lecture
	Contents	linear space, subspace		
7	Objective	They will learn linear mapping.	book	lecture, homework, quiz Problem-based learning
	Contents	properties of subspace		
8	Objective	midterm exam, properties of subspaces		
	Contents	midterm exam, properties of subspaces		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	They will learn basis and dimension	book	lecture
	Contents	basis, dimension		
10	Objective	They will learn linear mapping.	book	lecture
	Contents	diagram of mapping		
11	Objective	They will learn application of linear mapping.	book	lecture, homework, quiz Problem-based learning
	Contents	inner product, Gram-Schmidt process.		
12	Objective	They will learn Eigenvalue and Eigenvector.	book	lecture
	Contents	Calculation and Definition of Eigenvalue and Eigenvector.		
13	Objective	They will learn diagonalization of matrix.	book	lecture
	Contents	diagonalization of matrix, UL decomposition		
14	Objective	They will learn application of Eigenvalue and Eigenvector.	book	lecture, homework, quiz Problem-based learning
	Contents	least square approximation.		
15	Objective	Final exam. least square approximation		
	Contents	Final exam. least square approximation		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT300	01	학점	다변수해석학				3	전공선택
		시간	Multivariable calculus				3	
Name		e-mail			Address/Phone		Notes	
Kwon Young-Sam		ykwon@dau.ac.kr			051-200-7210			
Course Introduction	Need for the Course	This is a basic class for several variable functions. We need analysis class and calculus						
	Course Outline	We will study the differentiation and integration for severable variable fuctions						
Course Objective	This is a class to study the differentiation and integration for severable variable fuctions.							
Preliminary Requisites	Analysis							
Texts	Main Texts	An introsuction to analysis by wade						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		Traditional lecture		Traditional lecture		Traditional lecture	
	Lecture and discussion							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	10 %	35 %	35 %	0 %	100 %
	Method	Exams and homework						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Previous class		lecture
	Contents	We review the basic analysis and calculus class		
2	Objective	Notion of several variable functions		lecture
	Contents	We study the notion of several variable functions and draw the graph of functions		
3	Objective	Directional derivative		lecture
	Contents	We study the notion of directional derivative with examples		
4	Objective	Partial derivative		lecture
	Contents	We study the notion of partial derivative with examples and some properties		
5	Objective	Differentiation of several variable functions		lecture
	Contents	We study the notion of differentiation of several variable functions and applications		
6	Objective	Differentiation and some properties		lecture
	Contents	We study the notion of differentiation of several variable function		
7	Objective	Chain rule for several variable functions		lecture
	Contents	We study the notion of chain rule for several variables with examples		
8	Objective	mid term and chain rule		lecture
	Contents	We study the notion of chain rule		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Inverse function theorem		lecture
	Contents	We study the notion of minverse funtion Theorem with examples		
10	Objective	Implicit funtion Theorem		lecture
	Contents	We study the notion of implicit function Theorem and applications		
11	Objective	Lagrange multiplier		lecture
	Contents	We study the notion of Lagrange multiplier and find the max and min of funtions		
12	Objective	Integration		lecture
	Contents	We study the notion of integration and examles, some properties		
13	Objective	Multivariable integral		lecture
	Contents	We study the notion of multivariable integration with examples		
14	Objective	change of variables		lecture
	Contents	We study the notion of change od variables and practice some examples		
15	Objective	Final exam and line integral		lecture
	Contents	We study the notion of line integral and surface integral		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title		Credit/Hour	Field			
MAT302	01	학점	복소해석학	3	전공필수			
		학점	Complex Analysis	3				
Name		e-mail		Address/Phone	Notes			
Kwon Young-Sam		ykwon@dau.ac.kr		051-200-7210				
Course Introduction	Need for the Course	This is the class for students who want to study the basic notions of complex analysis						
	Course Outline	We will study the basic materials of complex analysis.						
Course Objective	We will first review the differential of real variables and study the difference between real variables and complex variables.							
Preliminary Requisites								
Texts	Main Texts	Complex analysis and applications by Yang						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		Flipped Learning	Problem Based Learning(Traditional lecture			
lecture, flipped learning, problem based learning								
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	10 %	10 %	35 %	35 %	0 %	100 %
	Method	I will assign homeworks weekly and then students have to return by next week.						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction of complex analysis class and definition of complex variables Flipped learning introduction		lecture, Flipped Learning
	Contents	We will introduce what we study for this class and then define complex variables Flipped learning introduction		
2	Objective	Basic functions of complex variables		lecture
	Contents	We will study the definition of complex functions together with reviewing the notions of real functions.		
3	Objective	Sequence and continuity of complex variables		lecture
	Contents	We will study sequence and continuity of complex variables		
4	Objective	Complex derivatives and Cauchy Riemann equation		lecture
	Contents	We will study complex derivatives and Cauchy Riemann equation.		
5	Objective	Application of Cauchy theorem		lecture
	Contents	We will study application of Cauchy theorem.		
6	Objective	Complex integrations		lecture
	Contents	We first review line integral over real plane and then define complex integrations.		
7	Objective	Cauchy theorem		lecture
	Contents	We will study Cauchy theorem.		
8	Objective	Midterm exam		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Cauchy integral formula		lecture
	Contents	We will study Cauchy integral formula		
10	Objective	Properties of Cauchy integral formula 1		lecture
	Contents	We will study Properties of Cauchy integral formula.		
11	Objective	Power series of complex variables 1		lecture
	Contents	We will study power series of complex variables.		
12	Objective	Power series of complex variables 2.		lecture
	Contents	We will study power series of complex variables and then prove the important result between power series of complex variables and complex derivative.		
13	Objective	Relation between complex derivatives and complex derivatives		lecture
	Contents	We will study relation between complex derivatives and complex derivatives.		
14	Objective	Properties of Cauchy integral formula 1		lecture
	Contents	We will study properties of Cauchy integral formula.		
15	Objective	Final exam		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT303	01	확률론	확률론			3	전공선택	
			Probability Theory			3		
Name		e-mail		Address/Phone		Notes		
SEOL YOUNGS00		prosul76@dau.ac.kr		051-200-7265				
Course Introduction	Need for the Course	This course is the important concepts to learn insurance/financial mathematics or biomath or all other applied math.						
	Course Outline	Main goal of this course is to learn the basic concepts for probability and statistics such as random variable, expectations, probability space etc and moreover, advanced probability theory.						
Course Objective	We will learn the advanced concepts for probability and statistics.							
Preliminary Requisites	Basic mathematics course and undergraduate level probability and statistics.							
Texts	Main Texts	A First Course in Probability by Sheldon Ross						
	References	Probability theory by Laha, Rohatgi						
	Useful Websites							
Method of Instruction	Traditional lecture							
	lecture and test							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		5 %	10 %	0 %	35 %	50 %	0 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to lecture and review		lecture and questions
	Contents	Introduction for this course and review for some mathematical skills		
2	Objective	Study the basic concepts		lecture and questions
	Contents	Probability space and random variable		
3	Objective	Basic concepts for probability and Statistics		lecture and questions
	Contents	Discrete and Continuous random variable with some properties		
4	Objective	Discrete distributions		lecture and questions
	Contents	Bernuolli and Binomial random variable		
5	Objective	Discrete distributions		lecture and questions
	Contents	Hyper geometric and geometric random variables		
6	Objective	Discrete distributions		lecture and questions
	Contents	Poisson process and Negative Binomial random variable		
7	Objective	Continuous distributions		lecture and questions
	Contents	Uniform random variable and exponential random variable		
8	Objective	Midterm test		Midterm
	Contents	Midterm		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Continuous distributions		lecture and questions
	Contents	exponential distribution and Normal distribution		
10	Objective	Continuous distributions		lecture and questions
	Contents	Standard Normal distributions with some important properties		
11	Objective	Complex probability distribution		lecture and questions
	Contents	Jointly distributed random variable		
12	Objective	Complex probability distribution		lecture and questions
	Contents	Jointly distributed random variable with some important properties		
13	Objective	Limit theorems		lecture and questions
	Contents	Probability inequalities and some limit theorems		
14	Objective	Limit theorems		lecture and questions
	Contents	Central Limit Theorems and some properties related with normal distribution.		
15	Objective	Final Exam		Final test
	Contents	Final Exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT308	01	개설 과목명	위상수학특론				3	전공선택
		필수 과목명	Advanced Topology				3	
Name		e-mail			Address/Phone		Notes	
Hwang Kyung-Won		khwang@dau.ac.kr			051-200-7208			
Course Introduction	Need for the Course	In this course, students learn broad concept and difficult theory about topology . They also learn basic theory of algebraic topology						
	Course Outline	They learn deep theory about topology to understand concept of topology						
Course Objective	They learn difficult concept of topology and learn method to classify different topological space							
Preliminary Requisites	Topology concept							
Texts	Main Texts	Principles of Topology Fred H. Croom						
	References	General Topology James Munkres						
	Useful Websites							
Method of Instruction	Traditional lecture		etc					
	I will teach usually and take exams and quizzes and homeworks							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		5 %	5 %	10 %	40 %	40 %	0 %	100 %
	Method	attendance-5% homework- 5%, quizzes-10%, midterm exam-40%, final exam-40%						

♠ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	students learn connected and disconnected seperated sets	book	teaching
	Contents	connected and disconnected seperated sets		
2	Objective	students learn topologist's sine curve component totally disconnected	book	teaching
	Contents	topologist's sine curve component totally disconnected		
3	Objective	students learn path connected, glueing lemma locally connected, locally path connected	book	teaching
	Contents	path connected, glueing lemma locally connected, locally path connected		
4	Objective	students learn compact, finite intersection property compact and continuity	book	teaching
	Contents	compact, finite intersection property compact and continuity		
5	Objective	students learn countably compact, lindelof theorem, lebesgue number, peano theorem	book	teaching homework
	Contents	countably compact, lindelof theorem, lebesgue number, peano theorem		
6	Objective	students learn one-point compactification locally compact,	book	teaching
	Contents	one-point compactification locally compact,		
7	Objective	students learn Product topology, projection map	book	teaching
	Contents	Product topology, projection map		
8	Objective	students learn Tychonoff theorem, midterm exam	book	teaching midterm exam
	Contents	Tychonoff theorem , midterm exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	students learn Quotient spaces and topology, equivalent modulo f	book	teaching
	Contents	Quotient spaces and topology, equivalent modulo f		
10	Objective	students learn surfaces, manifold, closed manifold	book	teaching
	Contents	surfaces, manifold, closed manifold		
11	Objective	students learn T_0 , T_1 , T_2 spaces	book	teaching
	Contents	T_0 , T_1 , T_2 spaces		
12	Objective	students learn Regular spaces, normal spaces	book	teaching quizz
	Contents	Regular spaces, normal spaces		
13	Objective	students learn separation by continuous functions dyadic number	book	teaching
	Contents	separation by continuous functions dyadic number		
14	Objective	students learn Urysohn lemma, completely regular space Tietze extension theorem	book	teaching
	Contents	Urysohn lemma, completely regular space Tietze extension theorem		
15	Objective	students learn metrization, Stone-Cech compactification Final exam	Book	teaching , Final exam
	Contents	metrization, Stone-Cech compactification Final exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
MAT315	01	개념	보험계리				3	전공선택
		영어	Insurance Accounts				3	
Name		e-mail			Address/Phone		Notes	
SEOL YOUNGS00		prosul76@dau.ac.kr			051-200-7265			
Course Introduction	Need for the Course	This course is useful to prepare for financial mathematics or Insurance mathematics exams as applications to the theory of probability and statistics.						
	Course Outline	We study the basic concepts of financial mathematics or Insurance mathematics based on the concepts of probability and statistics.						
Course Objective	Based on this course, we can try to take the exams for Actuarial science generalized by SOA.							
Preliminary Requisites	College Algebra, Calculus, Probability and Statistics							
Texts	Main Texts	A First course in probability by Ross Sheldon and Actuarial sample test.						
	References	Financial Mathematics and Insurance Mathematics						
	Useful Websites	http://math.illinoisstate.edu/actuary/exams/books.shtml , http://www.beanactuary.org/exams/						
Method of Instruction	Traditional lecture							
	Lecture and discussion							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		5 %	10 %	0 %	35 %	50 %	0 %	100 %
	Method	mid-term, final exam, Quiz, Class presentations						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction to the lecture and Actuarial Science	Related Website	lecture, Q&A
	Contents	Introduce the lecture goal and what is the Actuarial science and about job?		
2	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Learn the probability space and events and discrete/continuous random variables.		
3	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review several Actuarial exam problems related with discrete/continuous random variables.		
4	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Random variables and several distributions		
5	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review Actuarial exam problems related with random variable and several random distributions		
6	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Learn the jointly distributed random variables and conditional distributions		
7	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review Actuarial exam problems related with joint distributions and conditional distributions		
8	Objective	midterm test	Related Website	lecture, Q&A
	Contents	midterm test		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Probability distribution and expectations for life term, Average expectation for life		
10	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review Actuarial exam problems related with expectations and moment generating functions		
11	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Learn and review for Normal distributions and Standard Normal distributions		
12	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review Actuarial exam problems related with Normal distributions and Standard Normal distributions.		
13	Objective	Probability basic concepts	Related Website	lecture, Q&A
	Contents	Learn about several probability models such as Poisson processes and Markov chain.		
14	Objective	Study and Prepare for the Actuarial test	Related Website	lecture, Q&A
	Contents	Study and review Actuarial exam problems related with several probability models such as Poisson processes and Markov chain.		
15	Objective	final test	Related Website	lecture, Q&A
	Contents	Final exam		

Course Syllabus

2021 학년도 제 1학기

Course Number		Class	Course Title				Credit/Hour	Field	
MGE302		01	개념과 원리	분자유전학				3	전공선택
			개념과 원리	Molecular Genetic				3	
Name			e-mail			Address/Phone		Notes	
LEE JAI HEON			jhnlee@dau.ac.kr			051-200-7592			
Course Introduction	Need for the Course		Genetic information and genetic analysis are now crucial to research in almost every biological discipline.						
	Course Outline		1. The structure of DNA and chromosomes 2. The replication of DNA and chromosomes 3. Gene expression: transcription and RNA processing 4. Gene expression: translation and genetic code						
Course Objective		1. What are some of the important roles that genetics plays in the current genomic and proteomics era ? 2. What are DNA, RNA, and protein ? 3. How is genetic information stored in DNA transfored to RNA and protein.							
Preliminary Requisites		1. Read an overview of each section.							
Texts	Main Texts		Genetics: Snustad and Simmons, 2012.						
	References		Genetics: Hartl and Jones, 2002 Priciples of genetics: Tamarin, 2002 생명과학의 이해, 역:편자 방재욱 외. 녹문당, 2013. 최신유전학 (번역서): 김상구 외 4인, 범한서적주식회사, (4판) 2008						
	Useful Websites								
Method of Instruction		Traditional lecture		Team Based Learning(TBL		Problem Based Learning(Project Based Learning(
		1. Lecture 2. Presentation.							
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total	
	ntage	10 %	5 %	5 %	30 %	40 %	10 %	100 %	
	Method								

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction of molecular.		Lecture and discussion
	Contents	1. What is the molecular genetics ?		
2	Objective	Nucleic Acids.		
	Contents	1.Functions of the genetic material. 2.Proof that genetic information is stored in DNA. 3.The structures of DNA and RNA		
3	Objective	Replication and synthesis of Nucleic Acids.		
	Contents	1.DNA packing 2.DNA replication		
4	Objective	DNA polymerases and DNA synthesis.		
	Contents	1.Multiple DNA polymerases 2.The function of DNA polymerases 3.DNA synthesis		
5	Objective	The complex replication apparatus.		
	Contents	1.Rolling circle replication 2.Duplication of nucleosomes 3.Telomere		
6	Objective	Transcription.		
	Contents	1.Central dogma 2.RNA molecules		
7	Objective	Gene expression		
	Contents	1.The process of gene expression 2.General features of RNA synthesis		
8	Objective	mid-term examination		
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Transcription and RNA processing		
	Contents	1. Transcription in prokaryotes 2. Transcription in eukaryotes		
10	Objective	RNA splicing.		
	Contents	1. Splicing system 2. Identification of intron		
11	Objective	Translation and the genetic code		
	Contents	1. Protein structure 2. Protein synthesis		
12	Objective	Polypeptide.		
	Contents	1. Initiation, elongation and termination of translation. 2. The genetic code		
13	Objective	Mutation, DNA repair and recombination		
	Contents	1. What are the phenotypic effects of mutation? 2. Basic features of the mutation process 3. The Ames test and DNA repair mechanisms		
14	Objective	Transposable genetic elements The genetics of mitochondria and chloroplasts		
	Contents	1. Transposable elements 2. The classical genetics of organelles		
15	Objective	Final examination.		
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number		Class	Course Title				Credit/Hour	Field
MSC010	01	개설	공업수학 II				3	기초과학및수학
		폐과	Engineering Mathematics II				3	
Name		e-mail			Address/Phone		Notes	
HO LIM CHOI		hlchoi@dau.ac.kr			051-200-7734			
Course Introduction	Need for the Course	This course is the fundamental mathematical foundations for students in electrical engineering.						
	Course Outline	Beginning with infinite power series, various techniques with differential equations, etc.						
Course Objective	Learn how to solve differential equations, apply Fouries series, etc.							
Preliminary Requisites	Enginnering Mathematics I							
Texts	Main Texts	Advanced Engineering Mathematics (9th ed). E. Kreyszig, John Wiley & Sons						
	References	Engineering Mathematics, Gill						
	Useful Websites							
Method of Instruction		Traditional lecture						
		Teahcing, Presentation, etc						
Evaluation	Perce	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
	ntage	20 %	0 %	0 %	40 %	40 %	0 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Chpt. 5 Power series		Lecture & Discussion
	Contents	Power series method		
2	Objective	Chpt. 5 Power series	HW1	Lecture & Discussion
	Contents	- Frobenius method		
3	Objective	Chpt. 7 Linear Algebra		Lecture & Discussion
	Contents	- Linear algebra: basic concepts, ideas - Matrix multiplication - Gauss elimination		
4	Objective	Chpt. 7 Linear Algebra	Quiz1	Lecture & Discussion
	Contents	- Rank of a matrix - Solutions of linear systems		
5	Objective	Chpt. 7 Linear Algebra	HW2	Lecture & Discussion
	Contents	- Determinants, Cramer's rule - Gauss-Jordan Elimination		
6	Objective	Chpt. 8 Linear Algebra	HW3	Lecture & Discussion
	Contents	- Similarity of matrices, diagonalization		
7	Objective	Chpt. 8 Linear Algebra	HW3	Lecture & Discussion
	Contents	- Similarity of matrices, diagonalization		
8	Objective	Midterm Exam		Exam
	Contents	Exam Test - This is a midterm exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Chpt. 11 Periodic functions		Lecture & Discussion
	Contents	- Periodic Functions, Trigonometric series		
10	Objective	Chpt. 11 Fourier series	HW4	Lecture & Discussion
	Contents	- Fourier series - Functions of any period - Even and odd functions		
11	Objective	Chpt. 11 Fourier series		Lecture & Discussion
	Contents	- Approximation by trigonometric polynomials		
12	Objective	Chpt. 11 Fourier series	Quiz2	Lecture & Discussion
	Contents	- Fourier integral and application		
13	Objective	Chpt. 11 Fourier series	HW5	Lecture & Discussion
	Contents	- Fourier cosine and sine transforms - Fourier transform		
14	Objective	Chpt. 12 Partial differential equations		Lecture & Discussion
	Contents	- Basic concepts of partial differential equation - Wave equation		
15	Objective	Final Exam		Exam
	Contents	Exam Test - This is a final exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
PED402	01	전공필수	스포츠상해재활				3	전공선택
		교양필수	Sport Injury and Rehabilitation				3	
Name		e-mail			Address/Phone		Notes	
JUN HYUNG-PIL		hjun@dau.ac.kr			051-200-7817			
Course Introduction	Need for the Course	Recently, the movement in everyday life, not only the health and physical fitness training, you can prevent the disease, also it includes the purpose of treatment. Therefore, in order to meet the needs of improvement and a healthy quality of life of the future of life, the muscles in charge of the management and health promotion of the overall movement damage of athletes and the general public, of the damage to the skeletal system prevention and rehabilitation for information provision and quality recharge relates to the field, this course is required.						
	Course Outline	In the past, the sports science for the competitiveness improvement of athletes was the main, in modern times not only improve competitiveness of athletes, maintain general of human health through exercise and promotion, the prevention of disease interest is increased. Therefore, we want to culture the expertise and practical skills on the prevention and rehabilitation training methods of the damage for the management and health promotion of the overall damage to the athlete in order to respond to the trend of the times to be oriented a better life.						
Course Objective	1. Understand the various exercise damage and its mechanism based on the various sports scene 2. We want to develop skills necessary for effective treatment of movement damage 3. To learn a method that can be effectively applied to basic and specialized rehabilitation training appropriate to the public and athletes.							
Preliminary Requisites	We keep raising the foundation and strength of the training required for the sport rehabilitation training.							
Texts	Main Texts	To be determined (TBD)						
	References	1. 스포츠 부상(2013), 대한미디어, Michael Peters 2. 스포츠재활 총론(2012), 범문, William E. Prentice 3. 스포츠의학/손상과 재활치료(2012), 한미의학, 나영무						
	Useful Websites							
Method of Instruction		Traditional lecture						
		Lecture						
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		30 %	0 %	0 %	30 %	40 %	0 %	100 %
	Method	Attendance: 1 absence is 10 points deduction and 1 tardiness is 5 points deduction. Report: Using non-scientific resource will be considered as no submission. Submitting after the due date will be considered as no submission. Mid-term: TBD (multiple choices and short answers) Final: TBD (short answers and essay)						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Orientation, Sports Medicine and Athletic Training		1.Lectures 2.Audiovisual education
	Contents	What is Sports Medicine? Basis of Athletic Training		
2	Objective	Concepts of healing		1.Lectures 2.Practice
	Contents			
3	Objective	Principles of Range of Motion		1.Lectures 2.Practice
	Contents			
4	Objective	Injuries(foot, ankle, and lower leg)		1.Lectures 2.Practice
	Contents	1. Mechanism of Injury and S/S 2. immediately after the occurrence first aid 3. Treatment / prevention		
5	Objective	Injuries(hip and pelvis)		1.Lectures 2.Practice
	Contents	1. Mechanism of Injury and S/S 2. immediately after the occurrence first aid 3. Treatment / prevention		
6	Objective	Injuries(knee)		1.Lectures 2.Practice
	Contents	1. Mechanism of Injury and S/S 2. immediately after the occurrence first aid 3. Treatment / prevention		
7	Objective	Injuries(upper extremity)		1.Lectures 2.Practice
	Contents	1. Mechanism of Injury and S/S 2. immediately after the occurrence first aid 3. Treatment / prevention		
8	Objective	Midterm exam		Midterm exam
	Contents	Midterm exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Basis of Rehabilitation program		1.Lectures 2.Practice
	Contents			
10	Objective	Application and types of rehab exercise		1.Lectures 2.Practice
	Contents			
11	Objective	Application and types of rehab exercise		1.Lectures 2.Practice
	Contents			
12	Objective	Application and types of rehab exercise		1.Lectures 2.Practice
	Contents			
13	Objective	Application and types of rehab exercise		1.Lectures 2.Practice
	Contents			
14	Objective	Application and types of rehab exercise		1.Lectures 2.Practice
	Contents			
15	Objective	Final exams		final exams
	Contents	Final exams		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title		Credit/Hour	Field			
TOM202	02	학기	관광기업인사관리	3	전공필수			
		학점	Human Resource Management for Tourism Industry	3				
Name		e-mail		Address/Phone	Notes			
JUNG HO KYUN		hokyun@dau.ac.kr		051-200-7449				
Course Introduction	Need for the Course	Especially the hospitality industry needs a lot of people than other industry. Therefore, the right understanding for the human resource management for tourism industry is essential.						
	Course Outline							
Course Objective	First, understand the concept and the importance of human resource management. Second, learn the system of human resource management. Third, learn the management of human capital.							
Preliminary Requisites								
Texts	Main Texts	Human Resources Management(2012). Lim, Chang Hee. B&Mbooks.						
	References							
	Useful Websites							
Method of Instruction	Traditional lecture		etc					
	Lectures, Case Studies, Discussion, Presentations							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		10 %	20 %	0 %	35 %	35 %	0 %	100 %
	Method							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Understand the puposes of human resource management.		
	Contents			
2	Objective	Understand the history and environmental change of human resource management.		
	Contents			
3	Objective	Learn the recruitment and selection of human resources.		
	Contents			
4	Objective	Learn the objective and management strategy of personnel evaluation.		
	Contents			
5	Objective	Understand the history and environmental change of human resource management.		
	Contents			
6	Objective	Understand the level, system and types of wage.		
	Contents			
7	Objective	Learn the significance of job design and evaluation.		
	Contents			
8	Objective	Midterm Exam		Midterm Exam
	Contents	Midterm Exam		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Understand the necessity of education and the significance of career development.		
	Contents			
10	Objective	Learn the concept and significance of welfare.		
	Contents			
11	Objective	Learn the motivation and leadership.		
	Contents			
12	Objective	Understand the ethical human resource management		
	Contents			
13	Objective	Video -What is the leader?		
	Contents	What is the leader?		
14	Objective	Presentation and discussion.		
	Contents			
15	Objective	Final Exam		Final Exam
	Contents	Final Exam		

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title				Credit/Hour	Field	
TOM203	01	개설 학과	관광기업관리회계				3	전공필수
		개설 과목	Managerial Accounting for the Tourism Industry				3	
Name		e-mail			Address/Phone		Notes	
HYUNJOON KIM		hyunjoon@dau.ac.kr			051-200-7410			
Course Introduction	Need for the Course	It is important to know how to use accounting as a managerial tool to improve operational efficiency and profitability of firms through revenue enhancement and cost reduction. The course can be divided into three sectors. The first sector is the financial evaluation techniques for firms based on ratio analysis. The second sector is cost analysis and its application for maximizing profitability. The last section is the cost approaches to pricing rooms and meals in the hospitality operations.						
	Course Outline							
Course Objective	The main objective of this course is to introduce the students to the process of compiling and presenting information necessary for managerial decision-making. Upon completion of this course, the students are expected to be able to: (1) explain and analyze financial statements of the firms, (2) interpret financial ratios which are critical quantitative analysis tools, (3) understand various cost concepts, (4) understand and use various methods to explain the cost-volume-profit (CVP) analysis, and (5) use various cost approaches for pricing.							
Preliminary Requisites	Students must have good knowledge of basic algebra.							
Texts	Main Texts	Hospitality Industry Managerial Accounting (7th ed.), Raymond S. Schmidgall, Educational Institute of AH&MA						
	References							
	Useful Websites	http://cyber.donga.ac.kr/ilos/main/main_form.aci						
Method of Instruction	Traditional lecture		Problem Based Learning(
	This course combines lecturing and cooperative learning. The conventional lecture method is used to convey my knowledge and assist students in understanding the concepts and principles of the managerial							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		20 %	0 %	0 %	40 %	40 %	0 %	100 %
Method	Grading components will be weighted as following in determining your grade for the course: Midterm Exam (40%), Final Exam (40%), Class Attendance (20%).							

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Review of the balance sheet, income statement and the statement of cash flows, and statement of retained earnings	Chapters 1~4	Lecture, problem solving & case study discussion
	Contents	Introduction to the course/Review of Financial Statements		
2	Objective	Review of the balance sheet, income statement and the statement of cash flows, and statement of retained earnings	Chapters 1~4	Lecture, problem solving & case study discussion
	Contents	Review of Financial Statements		
3	Objective	Ratio standards, Purpose of ratio analysis, What ratio express?, Class of the ratios, Limitation of the ratio analysis and Usefulness the ratio analysis	Chapter 5	Lecture, problem solving & case study discussion
	Contents	Ratio Analysis		
4	Objective	Ratio standards, Purpose of ratio analysis, What ratio express?, Class of the ratios, Limitation of the ratio analysis and Usefulness the ratio analysis	Chapter 5	Lecture, problem solving & case study discussion
	Contents	Ratio Analysis		
5	Objective	General nature of cost, costs in relation to sales volume, Determination of mixed costs element, The fixed versus variable costs, Direct and indirect costs, Overhead costs, Controllable costs, Differential costs, Relevant costs, Sunk costs, Opportunity costs	Chapter 6	Lecture, problem solving & case study discussion
	Contents	Basic Cost Concepts		
6	Objective	General nature of cost, costs in relation to sales volume, Determination of mixed costs element, The fixed versus variable costs, Direct and indirect costs, Overhead costs, Controllable costs, Differential costs, Relevant costs, Sunk costs, Opportunity costs	Chapter 6	Lecture, problem solving & case study discussion
	Contents	Basic Cost Concepts		
7	Objective	General nature of cost, costs in relation to sales volume, Determination of mixed costs element, The fixed versus variable costs, Direct and indirect costs, Overhead costs, Controllable costs, Differential costs, Relevant costs, Sunk costs, Opportunity costs	Chapter 6	Lecture, problem solving & case study discussion
	Contents	Basic Cost Concepts		
8	Objective	Midterm exam will cover all topics we discussed over the previous 7 weeks.	Chapters 1~6	
	Contents			

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	CVP analysis defined, CVP equation, CVP equation, Income taxes and CVP analysis, Profit-volume graphs, Cash flow CVP analysis, Comprehensive problem, operating leverage and Computer applications	Chapter 7	Lecture, problem solving & case study discussion
	Contents	CVP Analysis		
10	Objective	CVP analysis defined, CVP equation, CVP equation, Income taxes and CVP analysis, Profit-volume graphs, Cash flow CVP analysis, Comprehensive problem, operating leverage and Computer applications	Chapter 7	Lecture, problem solving & case study discussion
	Contents	CVP Analysis		
11	Objective	CVP analysis defined, CVP equation, CVP equation, Income taxes and CVP analysis, Profit-volume graphs, Cash flow CVP analysis, Comprehensive problem, operating leverage and Computer applications	Chapter 7	Lecture, problem solving & case study discussion
	Contents	CVP Analysis		
12	Objective	The importance of pricing, Price elasticity of demand, Informal pricing approaches, Cost Approaches to Pricing Rooms, Cost Approaches to Pricing Foods and Beverage, Yield management, Menu engineering	Chapter 8	Lecture, problem solving & case study discussion
	Contents	Cost Approach to Pricing		
13	Objective	The importance of pricing, Price elasticity of demand, Informal pricing approaches, Cost Approaches to Pricing Rooms, Cost Approaches to Pricing Foods and Beverage, Yield management, Menu engineering	Chapter 8	Lecture, problem solving & case study discussion
	Contents	Cost Approach to Pricing		
14	Objective	The importance of pricing, Price elasticity of demand, Informal pricing approaches, Cost Approaches to Pricing Rooms, Cost Approaches to Pricing Foods and Beverage, Yield management, Menu engineering	Chapter 8	Lecture, problem solving & case study discussion
	Contents	Cost Approach to Pricing		
15	Objective	Final exam will cover all topics we discussed over the previous 7 weeks.	Chapters 7~8	
	Contents			

Course Syllabus

2021 학년도 제 1학기

Course Number	Class	Course Title			Credit/Hour	Field		
TOM207	01	TOEFL	관광영어회화 I			3	전공선택	
		TOEFL	Tourism English Conversation I			3		
Name		e-mail			Address/Phone		Notes	
BAE HAN SUK		hsbtamu@dau.ac.kr			051-200-7467			
Course Introduction	Need for the Course	In order to improve English communication skills, which are essential for tourism, it is necessary to provide students with the opportunity to practice speaking and to learn vocabulary and expression						
	Course Outline	This course is a basic English conversation class where students practice English speaking and learn essential vocabulary items and expressions in tourism.						
Course Objective	The goal of this course is to provide students opportunities to enhance their English communication skills by speaking practice and acquiring essential vocabulary items and expressions in tourism.							
Preliminary Requisites	Preview of the E-class materials							
Texts	Main Texts	Career Paths: Tourism (Virginia Evans, Jenny Dooley, & Veronica Garza: Express Publishing; 2011)						
	References	Mobile applications for English speaking (e.g., Flipgrid)						
	Useful Websites	Youtube.com (Related movie scripts will be provided in class)						
Method of Instruction	Traditional lecture		Team Based Learning(TBL)		Flipped Learning			
	Lectures, Pair and group works, Flipped learning, etc.							
Evaluation	Percentage	Attendance	Report	Instructor's Discretion	Midterm	Final	Etc.	Total
		20 %	20 %	10 %	20 %	20 %	10 %	100 %
	Method	1. Attendance: minus 1% (2 points) per absence; 2 tardies equal to 1 absence; and the excused absence is subject to the school policy. 2. Report (Assignment): Flipgrid projects + Role-play records 3. Instructor's discretion: class readiness, participation, cooperation, etiquettes, etc. 4. Mid-term & Final-term: written tests						

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
1	Objective	Introduction and Course Orientation.	syllabus & PPT	lecture and pair work
	Contents	Greetings and self-introduction. Overview of the course syllabus, assignments, and exams.		
2	Objective	Set up the mobile speaking application, Flipgrid, and present self-introduction on the grid.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Flipgrid project practice		
3	Objective	Communicate with foreigners through cooperative learning experiences. Pre-survey on English proficiency and needs for the course taking.	textbook & PPT	lecture, cooperative learning, pair & group work, conversation practice, etc.
	Contents	Cooperative learning I. & Needs analysis		
4	Objective	Practice English conversations using vocabulary items and key expressions for planning travels.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 1. About your guest		
5	Objective	Practice English conversations using vocabulary items and key expressions for using restaurants.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 2. Types of restaurants		
6	Objective	Practice English conversations using vocabulary items and key expressions for reserving accommodation.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 3. Lodging		
7	Objective	Practice English conversations using vocabulary items and key expressions for using the airport.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 4. At the airport		
8	Objective	Mid-term test	Mid-term test	Mid-term test
	Contents	Mid-term test		

♣ Course Schedule

Week	Objective and Contents		References	Class Activities
9	Objective	Communicate with foreigners through cooperative learning experiences. Practice English conversations using vocabulary items and key expressions for using the currency exchange office	textbook & PPT	lecture, cooperative learning, pair & group work, conversation practice, etc.
	Contents	Cooperative learning 2 & Unit 5. At the currency exchange office		
10	Objective	Practice English conversations using vocabulary items and key expressions for using transportation.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 6. Getting to and from the airport		
11	Objective	Practice English conversations using vocabulary items and key expressions for shopping at travel sites.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 7. How much does it cost?		
12	Objective	Practice English conversations using vocabulary items and key expressions for baggage claims.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 8. Where's my baggage?		
13	Objective	Practice English conversations using vocabulary items and key expressions for the symptoms in travel.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 9. Talking about symptoms		
14	Objective	Review unit 1-9 and practice English conversations on various travel situations.	textbook & PPT	lecture, pair & group work, conversation practice, etc.
	Contents	Unit 1-9 review		
15	Objective	Final-term test	Final-term test	Final-term test
	Contents	Final-term test		