2023 Spring Semester Class Plan

Date of first registration	2023-01-08 19:38:57		date of first modification	2023-02-20 15:30:38	
subject name	differential calculus		School No Class No. STA1002-02		
Credits/Lecture Hours/ Experiment, Practice, Practical Hours	3/Tuesday 1, Thursday 2,3		Department opened	Applied Statistics Major	
Class time	Tue 1, Thu 2,3		lecture room	Top B110	
test date	midterm exam		final exam		
Class language			Evaluation type	absolute evaluation	

Prolessor in charge	name	Youngja Park		phone call		
	belong	Department of Applied Statistics	contact	mail	ojpark@yonsei.ac.kr	
	Lab			interview information		

Assistant information name	contact	phone call	
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	Statistics is necessary f	tatistics is closely related to mathematics. Although statistics is a practical science, it is based on mathematics, so mathematics is an essential course for those who study statistics. As mathematics ecessary for the field of applied statistics, it helps to understand the concepts of differentiation and integration of single-variable and multi-variable functions, and limit concepts of sequences and series.						
Course outline A brief introduction to the course								
	1	korean	Understand the differentiation of single-variable functions and solve problems using the differential method.	208/				
		english		20%				
	2	korean	Understand the integration of single-variable functions and solve problems using the integration method.	20%				
		english						
class anal	3.	korean	Understand the series expansion of a function and use it to solve problems.	- 20%				
uass goar		english						
		korean	Understand and apply differential integration of multivariate functions to solve problems.	40%				
	-	english						
	5	korean						
	5.	english						



Core competency/major competency		* Set in 25% units so that the total value is 100%, and one main core competency/major competency must be 50% or more.												
		logical thinking ability	50% proble	olem solving				30% convergent think		king		20%		
Subcompetence/Unit of Learning 1														
Subcompetence/Unit of L	earning 2													
Sub-Competencies/Units of	Learning 3													
Key core competency (o major competency (major	culture) / or)		Linkage between subjects and major core competencies (culture) and major competencies (major)											
Sustainable Development	Goals													
Recommended average amount of	learning per week	average amount of reading					Avera	ge amount of	writing (based on A4	4)				
Teaching method		lecture		Training			presentation		debate			team project		
(%) to be 100 without su	um	100%			0%	0%		0%		0%	. 0%		0%	
Class method 2		PBL subjects		Capstone Design CBL, Social Innovation		Innovation Co	novation Course Flipped Classroom Field		Field Practice, Internship					
Grade evaluation metho	od	midterm exam final exam			Quiz	pers	onal assignment		team assignment		attendance etC			
(%) Free entry of other i that the total value is 10	information so 10	30%	40%		20%	0%		%	0%	6		10%		0%
		Assignment name/project name and writing method				Submission Deadline				Submission type and submission method				
Assignment/report, proje	ect guidance													
Athlete's recommended course		high school				Online lecture site LearnUs								
Glassification of textbooks	textbo	nook name author				publisher			Year of publication		ISBN			
main material	Essential calculus : early tran	nscendentals Stewart, James			Brooks/Co Cengage	Brooks/Cole, Cengage Learning			2013		9781133492573			
References Differential and integral calculus. 1, Calculus of sin		lus of single-variable functions St	ewart, James E	ducation Compar	y				2014		9791125100027			
Reference	differential calculus. 2, multive analysis	ariate functions and vector	Stewart, James Friends Club						2014		9791125100027			



	Applied Statistics and Commerce Department students are the main learning subjects. students interested in mathematics. College of science (including medical school and dental school) and engineering students should refrain from taking courses if possible. (Highest grade A0, recommended to take Calculus and Vector Analysis 1,2 or Engineering Mathematics 1,2)
	Each study of trigonometric and exponential logarithmic functions before class begins.
	Midterm: 8th week, Thursday, April 20th, 7:00-8:50pm scheduled, Chapters 1-6, face-to-face paper test Final exam: Week 16, Thursday, June 15th,
	7:00-8:50pm, 8 Chapter 11, Chapter 12 Face-to-face paper-and-delivered test Please take classes so that the midterm and final exam schetulesetdap with other classes or tests.
	According to the department's bylaws, A+ within the top 20%, A0 within the top 30%, A- within the top 40%, B+ within the top 60%, B0 within the top 70%, B- within the top 80% +final 80 = 200 points
Key learner notes	2 points per hour of absence, 1 point per tardy session
	Online Quiz No. 12 (excluding Weeks 1, 8, 9, and 16): For details, learnus notice after the start of the semester
	Grades are combined for 02 and 03 classes.
	The test is written in Korean. (Important terms are written in English)
	Upgrading/downgrading grades without justifiable grounds is not allowed
	F Subjects: 1. Lack of attendance (more than 1/3 of absences), 2. Cheating (attendance, test) detected, 3. Failure to complete the final term without a valid reason, 4. Lack of grades, less than 60 points out of a total of 200 points, 5. Under C- for graduate students (a C- or higher is evaluated the same as undergraduate students)
Attachments	

weekly plan

parking	period	Class contents and learning activities	note
1 week	2023-03-02 2023-03-08	Function definition and limit	(3.2.) Start of class (3.6 3.8.) Confirmation and change of course registration
2 weeks	2023-03-09 2023-03-15	diferential	
3 weeks	2023-03-16 2023-03-22	Inverse Functions and Differential Methods of Inverse Functions	
4 weeks	2023-03-23 2023-03-29	Use of Differentiation	
5 weeks	2023-03-30 2023-04-05	integral	
6 weeks	2023-04-06 2023-04-12	integral technique	(4.7.) Semester 1/3 line
7 weeks	2023-04-13 2023-04-19	rating	
8 weeks	2023-04-20 2023-04-26	Midterm exam (Scheduled for Thursday, April 20th from 7:00-8:50 pm, Chapters 1-6)	(4.20 4.26.) Interim exam
9 weeks	2023-04-27 2023-05-03	Power series and series expansion	(4.27 5.1.) Course withdrawal (5.2 5.4.) Application for S/U evaluation
10 weeks	2023-05-04 2023-05-10	Differentiation of a Multivariate Function	(5.2 5.4.) Application for S/U evaluation (5.5.) Children's Day 05.05 Children's Day
11 weeks	2023-05-11 2023-05-17	Differentiation of a Multivariate Function	(5.15.) Semester 2/3 line



12 weeks	2023-05-18 2023-05-24	Differentiation of a Multivariate Function	
13 weeks	2023-05-25 2023-05-31	Integral of a Multivariate Function	(5.27.) Buddha's Birthday 05.27 Buddha's Birthday
14 weeks	2023-06-01 2023-06-07	Integral of a Multivariate Function	(6.6.) Memorial Day 06.06 Memorial Day
15 weeks	2023-06-08 2023-06-14	Self-study and final exams (reinforcing the suspension of classes on Memorial Day)	(6.8 6.14.) Self-study
16 weeks	2023-06-15 2023-06-21	Self-study and final exams (scheduled for Thursday, June 15, 7:00-8:50 pm, Chapter 8, Chapter 11, Chapter 12)	(6.15 6.21.) Final exam

Compulsory

Attendance • Students who miss more than 1/3 of the actual class hours will receive an F or NP regardless of the test result. • Courses that do not have midterm

and final exams are taught during the applicable period. Support for students with disabilities • You can request teaching and learning support for attendance,

lectures, assignments, and tests through an interview with the professor in charge before the semester starts. class participation, and

Examples of possible support by type of disability are as follows: (However, the actual application content may vary at the discretion of the professor in consideration of the essential characteristics of the class.)

[Lessons]

- Blind handicap: Teaching materials production (digital, braille, enlarged textbooks, etc.), ghostwriting support students allowed - Physical

disability: teaching materials production (digital textbooks), ghostwriting and class assistants students allowed to audit, assigned seats - Hearing impaired :

Auditing of students with ghostwriting support/personnel supporting text interpretation (stenographers, sign language interpreters), and recording of lectures allowed -

Intellectual disability/autistic disorder: Allow students with ghostwriting support and audition of class mentors in consideration of the characteristics and degree of their

disabilities [Assignments and exams] - Visual Disability/Physical Disability/Hearing Impairment: Reasonable extension of assignment submission deadline, adjustment of

assignment and submission method, extension of test time, adjustment of test questions and response method, provision of separate location, linkage with students for writing support - Intellectual disability/autism disorder: reasonable

level Extension of assignment submission deadline, adjustment of assignment and submission method Safety Precautions • Science and engineering majors and life science majors, etc. Candidates for lab environment safety education must complete the online education before the start of the semester and submit the certificate of completion in the first class.

and those who do not submit are not allowed to participate in the

class. • Before physical education classes, warm-up exercises must be performed, and students with cardiovascular diseases or chronic respiratory diseases can exercise after consulting with a doctor in advance.

Wealth must be checked.

