

2023 Spring Semester Class Plan

Date of first registration	2023-01-03 15:22:20	date of first modification	2023-01-03 15:29:13
subject name	understanding of the universe	School No. - Class No.	UCC1106-02
Credits/Lecture Hours/ Experiment, Practice, Practical Hours	3/Tue 7, Thu 8,9	Department opened	nature and space
Class time	Tue 7, Thu 8,9	lecture room	others 01
test date	midterm exam	final exam	
Class language		Evaluation type	absolute evaluation

Professor in charge	name	Youngwook Lee	contact	phone call	02-2123-2689
	belong	astronomy		mail	YWLEE2@YONSEI.AC.KR
	Lab	Science Hall 621		interview information	YWLEE2@YONSEI.AC.KR

Assistant information	name		contact	phone call	
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Course outline A brief introduction to the course	Understanding of space and natural philosophy for science and convergence knowledge that Yonsei people who will become leaders of our society in the future should have. Lectures on the characteristics of science, the overview of the universe, the evolution of stars and the origin of humans, the formation and evolution of galaxies, Big Bang cosmology and natural philosophy, dark matter and dark energy, and the possibility of extraterrestrial intelligence are taught in an easy-to-understand manner. It also introduces the history and prospects of space observation.				
class goal	1.	korean	scientific understanding of the universe		100%
		english	Scientific understanding of the universe		
	2.	korean	.		0%
		english	.		
	3.	korean	.		0%
		english	.		
	4.	korean	.		0%
		english	.		
	5.	korean	.		0%
		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.				
	convergence thinking ability	50%	Challenging Knowledge Quest	40%	creative imagination 10%
Subcompetence/Unit of Learning 1					
Subcompetence/Unit of Learning 2					
Sub-Competencies/Units of Learning 3					
Key core competency (culture) / major competency (major)	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		Average amount of writing (based on A4)		
Teaching method (%) to be 100 without sum	lecture	Training	presentation	debate	team project
	90%	0%	10%	0%	0%
Class method 2	PBL subjects	Capstone Design CBL, Social Innovation Course Flipped Classroom Field Practice, Internship			
Grade evaluation method (%) Free entry of other information so that the total value is 100	midterm exam final exam	Quiz	personal assignment	team assignment	attendance etc
	30%	30%	0%	30%	0% 5% 5%
Assignment/report, project guidance	Assignment name/project name and writing method		Submission Deadline	Submission type and submission method	
Athlete's recommended course	doesn't exist		Online lecture site LearnUs		

Classification of textbooks	textbook name	author	publisher	Year of publication	ISBN
Reference	The universe and humans: the astronomy story of Prof. Lee Young-wook, who uncovers the secrets of galaxy creation	Youngwook Lee	Donga Ilbo	2000	8970902074

Key learner notes	Student at Yonsei University Sinchon Campus
Attachments	

weekly plan

parking	period	Class contents and learning activities	note
1 week	2023-03-02 2023-03-08	Course Outline Overview of the Universe	(3.2.) Start of class (3.6. - 3.8.) Confirmation and change of course registration
2 weeks	2023-03-09 2023-03-15	Introduction to the Term Project The Origins of Stars and Humans: Stellar Basic Structure and Energy Sources	
3 weeks	2023-03-16 2023-03-22	Origins of Stars and Humans: Stellar Evolution and Heavy Element Origins	
4 weeks	2023-03-23 2023-03-29	Galactic Astronomy: Structure and Formation of the Milky Way	
5 weeks	2023-03-30 2023-04-05	Galactic Astronomy: Classification of outer galaxies, formation and evolution of galaxies	
6 weeks	2023-04-06 2023-04-12	Space Observation: Structure and Performance of Astronomical Telescopes GMT Giant Telescope Project	(4.7.) Semester 1/3 line
7 weeks	2023-04-13 2023-04-19	The birth of modern cosmology Hubble's law and the expansion of the universe	
8 weeks	2023-04-20 2023-04-26	midterm exam	(4.20. - 4.26.) Interim exam
9 weeks	2023-04-27 2023-05-03	Relativistic Concepts in Big Bang Cosmology	(4.27. - 5.1.) Course withdrawal (5.2. - 5.4.) S/U evaluation application (5.2. - 5.4.) S/U evaluation application (5.5.)
10 weeks	2023-05-04 2023-05-10	Observational Evidence for the Big Bang Cosmology	Children's Day 05.05 Children's Day
11 weeks	2023-05-11 2023-05-17	The fate of the universe and the problem of the big bang theory	(5.15.) Semester 2/3 line
12 weeks	2023-05-18 2023-05-24	dark matter and dark energy	
13 weeks	2023-05-25 2023-05-31	Special Lecture on Supernova Cosmology	(5.27.) Buddha's Birthday 05.27 Buddha's Birthday
14 weeks	2023-06-01 2023-06-07	Searching for extraterrestrial planets and the possibility of extraterrestrial intelligence Humans and the universe	(6.6.) Memorial Day 06.06 Memorial Day
15 weeks	2023-06-08 2023-06-14	self-learning	(6.8. - 6.14.) Self-study
16 weeks	2023-06-15 2023-06-21	final exam	(6.15. - 6.21.) Final exam

Compulsory

Attendance • A student who misses 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 are allowed

- Hearing impairment: Auditing students with ghostwriting support/text interpreters (stenographer, sign language interpreter) and recording of lectures allowed - Intellectual disability/autism disorder: Allowing ghostwriting students and class mentors to audit in consideration of the characteristics and degree of their disabilities [Assignments and exams] - Blind/Physical/Hearing Impaired: 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 a separate location, connection of students with ghostwriting support - Intellectual disability/autism disorder : Reasonable level of 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.