

Science and Religion

Course Name	Course type (credit/hours)	Required course(3/3)	Course code	X102
	Target students Division/major/grade	/Freshman	Opening semester	2021 2ND SEMESTER
	Class time and classroom	Mon A()Wed A()	English Grade	A(100%English)
Reference to this course	Prerequisite courses			
	Related basic courses			
	Recommended concurrent courses			
	Related advanced courses			

Instructor	Name (title/division)		Lee, Jae Shin(Professor Emeritus, Chemistry)		
	Office Room Number	Woncheon 216	Office phone Number	2603	e-mail
	Office hours			Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

Science and religion share a common area of interest in that science is a quest for understanding the general principles behind natural phenomena, while religion is concerned with the position and purpose of mankind in the nature. For the people who are simultaneously receiving the benefits and hazardousness of the modern day scientific technology, it is important to establish a sound perspective on religion based on correct understanding of the values and limitations of science. In this course we investigate the respective approach and perspective of the science and religion on the issues of origins of cosmos and life and the relationship between the western science and Christianity through history. The major contents covered in the lecture will be the relation between science and religion, historical investigation of the western science and Christianity, and modern scientific development about the origin of the cosmos and life. This course is related to advancing the capability of analytical and critical thinking as well as interdisciplinary studies in our university.

2. Course Objectives

The goal of this course is, first, to understand the relationship between science and religion through historical investigation on the relation between science and religion in the western society. The second goal of this course is to investigate the problem of origin of the universe and life, which is a common fundamental issue of science and religion, using modern scientific concepts and theories.

3. Class types and activities

Lecture(pre-recorded + live lecture via zoom). Video watching.

4. Teaching Method

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|--|---|
| <input type="checkbox"/> lecture | <input type="checkbox"/> discussion and debate |
| <input type="checkbox"/> team project(presentation and case studies) | <input type="checkbox"/> experiments(role-playing,etc) |
| <input type="checkbox"/> designing and production | <input type="checkbox"/> on-site learning(on-site training) |
| <input type="checkbox"/> others | |

5. Support Systems in Use

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|--|---|---|
| <input type="checkbox"/> AjouBb | <input type="checkbox"/> automatic recording system | <input type="checkbox"/> web-based assignment |
| <input type="checkbox"/> cyber lecture | <input type="checkbox"/> online content | |
| <input type="checkbox"/> class behavior analyzing system | <input type="checkbox"/> others | |

6. Teaching Tools

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|--|---|---|
| <input type="checkbox"/> PBL(Problem Based Learning) | <input type="checkbox"/> CBL(Case Based Learning) | <input type="checkbox"/> TBL(Team Based Learning) |
| <input type="checkbox"/> UR(Undergraduate Research) | <input type="checkbox"/> FL(Flipped Learning) | <input type="checkbox"/> DSAL(Data Science Active Learning) |
| <input type="checkbox"/> others | | |

7. Knowledge and ability required for taking this course

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20	
midterm exam			
final exam	1	40	
quiz			
presentation			
discussion			
homework	2	40	
etc			
study hours			

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
Main	Science and religion, a historical introduction, 1st ed.	G. B. Ferngren	Johns Hopkins Univer	2002
Main	Signature in the cell (Korean translation: "세포 속의 시그니처")	S. C. Meyer	HarperOne	2009
Ref.	A brief history of time	S. Hawking	Bantam	1998
Ref.	Darwin's doubt	S. C. Meyer	HarperOne	2013
Ref.	Origin of Species	C. R. Darwin		

10. Class system and Class shedule

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< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Definition of science and religion	E	Lee, Jae Shin			

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
2	Relation between science and religion in ancient Greek	E	Lee, Jae Shin			
3	Relation between science and religion in Middle Ages	E	Lee, Jae Shin			
4	Relation between science and religion during scientific revolution	E	Lee, Jae Shin			
5	Newtonian mechanics and cosmology	E	Lee, Jae Shin	On site class		
6	Special relativity	E	Lee, Jae Shin	On site class		
7	General relativity and Big Bang theory	E	Lee, Jae Shin			
8	Cosmology and religion	E	Lee, Jae Shin	On site class		
9	Geology and paleontology in 18 and 19 C	E	Lee, Jae Shin			
10	Natural history during 18 and 19 C	E	Lee, Jae Shin			
11	Charles Darwin and evolution	E	Lee, Jae Shin			
12	Chemical evolution model	E	Lee, Jae Shin			
13	Inference in historical science	E	Lee, Jae Shin			
14	Intelligent design argument	E	Lee, Jae Shin			
15	Science, materialism, and Naturalism	E	Lee, Jae Shin	On site class		
16	Final exam.	E	Lee, Jae Shin	Offline exam.		

11. Other items of notification