

Colloquium in Biological SciencesII(Capstone Design)

Course Name	Course type (credit/hours)	Required course(1/1)	Course code	G055
	Target students Division/major/grade	Biological Science/Senior	Opening semester	2021 2ND SEMESTER
	Class time and classroom	Sat 1(WH534-2)	English Grade	A(100%English)
Reference to this course	Prerequisite courses	Three or more subjects required for biological sciences departments		
	Related basic courses			
	Recommended concurrent courses	Special Study on Life Sciences I		
	Related advanced courses			

Instructor	Name (title/division)		Lee, Changhan(Assistant Professor, Biological Science)		
	Office Room Number	Woncheon 202호	Office phone Number	2621	e-mail
	Office hours			Homepage address	
Teaching Assistant	Name (title/division)				
	Office Room Number		Office phone Number		e-mail

1. Introduction

This course is designed to equip 4th year undergraduate students for successful professional life. In this course, students will learn problem solving ability and communication and presentation skills through literature survey and analysis of data/informations. Thus, this course provides students opportunity to get practical application ability for industry-university-institute collaboration research and development and have backgrounds for field training.

2. Course Objectives

◇ Education goals
Develop presentation materials preparation and presentation skills, one of the practical skills related to the major after social advancement, in older students majoring in natural science or engineering. To accurately identify the causes and effects of academic/social/industrial problems that scientists/engineers/pharmacists/medicines need to solve, set topics of interest for students or teams, and conduct literature and data/information exploration and analysis to learn how to present, exchange and communicate.
◇ Learning outcomes for subjects
Students who have taken this course,
– Recognise academic/social/industrial problems or topics that scientific/engineering/pharmacological/medical degrees should address.
– seek ways to solve problems or explore topics of interest.
– Results of literature and data/information exploration on topics of interest (problems) can be analyzed and organized.
– Based on organized data on academic/social/industrial issues or topics, it is possible to present coherently, exchange opinions, and communicate with each other.

3. Class types and activities

Firstly, students determine a subject, which they are interested in or should be solved in terms of scientific/industrial/social issues/problems etc
Secondly, students survey literatures, database, journals, or any informatic sources.
Thirdly, students organize materials.
Lastly, students present

4. Teaching Method

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

6. Teaching Tools

- | | | |
|--|---|---|
| <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

- Ability to read English papers or materials
- Open web site expansion and utilization capabilities such as Pubmed
- Ability to utilize software for presentation (powder points, etc.)

8. Method of Evaluation

Evaluation Item	The Number of Times	Evaluation Proportion	Remarks
Attendance		20	If attendance is low, you will be deducted 10–50%, and if you are absent more than 1/3 of the time,
midterm exam			
final exam			
quiz			
presentation		50	Time compliance, memorization of presentation, presentation posture, quantitative data presentation,
discussion		10	Question levels based on discussion and query frequency and understanding, etc.
homework			
etc		30	Taxonomy attendance 10% + Final report 20%
study hours	An average of about an hour a week.		

9. Textbook and supplementary material

Main/Sub	Title (Web-site)	Writer	Publisher	Publication year
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10. Class system and Class shedule

- Select topics related to life sciences and each student (or team) collects data on the selected topics and presents them in order.
- Questions and responses to presentations and discussions

< Class Schedule >

* language : K-korean, E-English

Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
1	Course introduction, presentation topic and order determination	E	Lee, Changhan			
2	Research Topics Exploration Methods and Verbal Presentation Tins	E	Lee, Changhan			
3	Presentation exercises and feedback	E	Lee, Changhan			
4	Presentation	E	Lee, Changhan			
5	Presentation	E	Lee, Changhan			

< Class Schedule >

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Weeks	Topics	language	Instructor	Teaching Method	Evaluation Method	Matter to be prepared
6	Presentation	E	Lee, Changan			
7	Presentation	E	Lee, Changan			
8	Mid term exam period	E	Lee, Changan			
9	Study Plan Report Feedback	E	Lee, Changan			
10	Presentation	E	Lee, Changan			
11	Presentation	E	Lee, Changan			
12	Presentation	E	Lee, Changan			
13	Final Presentation	E	Lee, Changan			
14	Final Presentation	E	Lee, Changan			
15	Final Presentation	E	Lee, Changan			
16	Final exam period	E	Lee, Changan			

11. Other items of notification