

강 의 계 획 서(Syllabus)

[1] 기본 정보(Basic Information)

■ 강의 정보(Course Information)

교과목명 (Course Title)	미생물생태학 (Microbial Ecology)	강의유형 (Course Type)	Lecture and discussion
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[2] 학습 목표/성과(Learning Objectives/Outcomes)

■ 과목 설명(Course Description)

A comprehensive overview of the biology of microorganisms, with emphasis on microbial and metabolic diversity will be presented. Topics include microbial diversity, metabolic diversity, microbial ecology, microbial genomics, and viral diversity.

■ 학습 목표(Learning Objectives)

This course is designed to introduce undergraduate students to microbial and metabolic diversity and genomics.

■ 학습 성과(Learning Outcomes)

Expert knowledge about environmental microbiology and microbial ecology

[3] 강의 진행 정보(Course Methods)

■ 강의 진행 방식(Teaching and Learning Methods)

강의 진행 방식	추가 설명
Teaching	Teaching and questions

■ 수업 자료(Textbooks, Reading, and other Materials)

수업 자료	제목	저자	출판일/게재일	출판사/학회지
Textbook	Brock Biology of Microorganisms	Madigan, Martinko, Bender, Vuckley, Stahl	2015	Pearson

[4] 수업 일정(Course Schedule)

차시	강사명	수업주제 및 내용	제출 과제	추가 설명
1	Jeon, Che	Chapter 12: Microbial Evolution and		Microbial Diversity

	Ok	Systematics(1)		
2	Jeon, Che Ok	Chapter 12: Microbial Evolution and Systematics(2)		Microbial Diversity
3	Jeon, Che Ok	Chapter 12: Microbial Evolution and Systematics(3)		Microbial Diversity
4	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(1)		Microbial Diversity
5	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(2)		Microbial Diversity
6	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(3)		Microbial Diversity
7	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(4)		Microbial Diversity
8	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(5)		Microbial Diversity
9	Jeon, Che Ok	Chapter 13: Metabolic Diversity of Microorganisms(6)		Microbial Diversity
10	Jeon, Che Ok	Chapter 14: Functional Diversity of Bacteria(1)		Microbial Diversity
11	Jeon, Che Ok	Chapter 14: Functional Diversity of Bacteria(2)		Microbial Diversity
12	Jeon, Che Ok	Chapter 16: Diversity of Archaea(1)		Microbial Diversity
13	Jeon, Che Ok	Chapter 16: Diversity of Archaea(2)		Microbial Diversity
14	Jeon, Che Ok	Chapter 17: Diversity of Eukaryotic Microorganisms		Microbial Diversity
15	Jeon, Che Ok	Chapter 18: Methods in Microbial Ecology(1)		Microbial Ecology and Environmental Microbiology
16	Jeon, Che Ok	Chapter 18: Methods in Microbial Ecology(2)		Microbial Ecology and Environmental Microbiology
17	Jeon, Che Ok	Chapter 20: Nutrient Cycles		Microbial Ecology and Environmental Microbiology
18	Jeon, Che Ok	Chapter 21: Microbiology of the Built Environment Chapter 22: Microbial Symbiosis		Microbial Ecology and Environmental Microbiology

[5] 수강생 학습 안내 사항