

나. 강의계획(안)

교과목명	식물분자생물학	학점/주차(강의 시간)	3-3-0
과목 개요	Plants are the primary producers of the solar energy. Plant cells are different from those of animals and fungi. However, the basic physiology of the plant cells and molecular biology of the plant genes are similar to other systems. In this course, the basic features in plants will be dealt with in conjunction with molecular nature.		
선도산업과의 정합성	Plants are the primary source for all life forms by converting solar energy into chemical energy thru photosynthesis, which support the life ecosystems providing us foods, amenity, medicine etc. Thus, the basic plant biology and molecular biology will foster biometical students in steering their long term goals in biometical sciences.		
수업 목표 및 기대효과	Students will benefit from the basic plant biology to molecular biology to see the whole ecosystem of biology, which will help them in building solid basis for the bio- medical studies in the future.		
강의 진행 방식	영어강의	V	산학협력 팀티칭
교재 및 참고문헌	Introduction to Plant Biology (11th edition), Stern, Bidlack, Jansky co- authored. The McGraw Hill Co. 2008.		
학습평가 방법	Midterm exam 45%, Final exam 45%, attendance 10%		
주차별 강의 내용			
1주차	1.What is plant Biology? 2. The nature of life		
2주차	3. Cells 4. Tissues		
3	5. Roots and soils 6. Stems		
4	7. Leaves 8. Flowers, fruits, and seeds		
5	9. Water in plants 10. Plant metabolism		
6	11. Growth Meiosis and alternation o generation		
7	12. Genetics 13. Plant breeding and propagation		
8			

9	14. Evolution Mid-exam
10	15. Plant names and classification 16. Domain Bacteria, Domain Archaea, Viruses
11	17. Kingdom Protista 18. Kingdom Fungi
12	19. Introduction to plant kingdom: bryophytes 20. Seedless vascular plants
13	21. Introduction to seed plants: Gymnosperm 22. Seed plants: angiosperms
14	23. Flowering plants and civilization 24. Ecology
15	Overview Final Exam
16	