과목번호	7800	교과목명	시스템생물학기초
추가연락처		상담가능시간	upon appointment

강의목표

This class provides new insights of Systems Biology of biological pathway to biological students. The major learning goal of this class is understanding basic concept and information relating to Systems Biology. The students taking this class are expected to take some fundamental classes like biology, biochemistry, molecular biology, and cellular biology.

강의진행 방법

1. A Project Oriented Goal -details will be given in classes
2. Lecture and Practice in a computer lab. One hour class is in B-learning and two hour class is in a computer lab.
3. Lecture - PPT & discussion
4. A disabled student could ask any helps before classes.
* 장애학생을 위하여 교수학습지원(수업자료, 과제, 평가, 강의실 등 수

성적평가 방법

항목	비중(%)	만점
출석률	15	100
중간고사	35	100
기말고사	35	100
과제물	15	100
기타1	0	0
기타2	0	0
기타3	0	0
기타4	0	0
기타5	0	0

설명

주별강의계획서 | 강의교재 | 강의과제

1주부터 16주까지 모두 입력된 경우에만 강의계획서 입력으로 인정합니다.

주차	기간	주제	강의내용	페이지	과제및참고자료	준비
1	2016/08/29~ 2016/09/04	Orientation	Bioinformatics, Computational E			
2	2016/09/05~ 2016/09/11	Systems Biology	About Systems Biology			
3	2016/09/12~ 2016/09/18	Omics	Omics & Data Handling			
4	2016/09/19~ 2016/09/25	Genetic Data	Genomics Data Handling			
5	2016/09/26~ 2016/10/02	DNA Sequences	Analysis of DNA, RNA Sequences			
6	2016/10/03~ 2016/10/09	Protein Basics	Protein Basics		Homework 1	
7	2016/10/10~ 2016/10/16	Protein Sequences	Analysis of Protein Sequences			
8	2016/10/17~ 2016/10/23	Midterm Exam				
9	2016/10/24~ 2016/10/30	Protein Structure	Protein Structure Analysis			
10	2016/10/31~ 2016/11/06	Protein Interaction	Protein Interaction Database			
11	2016/11/07~ 2016/11/13	Sequence Alignment -1	Sequence Alignment -1		Homework 2	
12	2016/11/14~ 2016/11/20	Sequence Alignment -2	Sequence Alignment -2			
13	2016/11/21~ 2016/11/27	Phylogenetic Analysis - 1	Phylogenetic Analysis - 1			
14	2016/11/28~ 2016/12/04	Phylogenetic Analysis - 2	Phylogenetic Analysis - 2			
15	2016/12/05~ 2016/12/11	Systems Analysis	Systems Analysis, Related Softv		Homework 3	
16	2016/12/12~ 2016/12/18	Final Exam				

교재구분	교재명	저자	출판사	출판년도
주교재	Systems Biology Basics	House-made		2010
참고문헌	References			
주교재	시스템 생물학	조광현	홍릉과학	2013