100-1 Preliminary Syllabus, Da-Yeh Univ

Information			
Title	基因體學	Serial No. / ID	1070 / BRR5015
Dept.	生物資源學系碩士班	School System / Class	研究所碩士班1年1班
Lecturer	柳源德	Full or Part-time	專任
Required / Credit	Optinal / 2	Graduate Class	No
Time / Place	(四)56 /	Language	Chinese

Introduction

The course is mainly to discuss ways to explain and periodicals for students to understand the current genomic-related knowledge. Genomics in the study of ecological and biological information on the biological role of the development of technology and attention. With this course students will learn about genomics research principles, methods and applications of the research.

Outline

1.Introduction
2.Mapping genomes
3.The human genome project
4.Animal genome projects
5.Plant genome projects
6.Microbial genome projects
7.Automatic DNA sequencing
8.Genome sequencing
9.The nature of single nucleotide polymorphisms
10.Microarrays
11.RNA sequencing
12.Single-gene analyses
13.Properties of tran s c r i p t omes
14.Functional proteomics
15.Functional genomics

Prerequisite

Students attend the University of subjects studied must be part of sub-biological or biotechnology-related courses.