COURSE DETAIL

INTRODUCTORY BIOINFORMATICS
Country Singapore
Host Institution National University of Singapore
Program(s) National University of Singapore
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Biological Sciences
UCEAP Course Number 129
UCEAP Course Suffix
UCEAP Official Title INTRODUCTORY BIOINFORMATICS
UCEAP Transcript Title INTRO BIOINFORMATIC
UCEAP Quarter Units 6.00
UCEAP Semester Units 4.00

Course Description

This course introduces the concepts, tools and techniques of bioinformatics to understand molecular evolution, individualized medicine, and data intensive biology. The course includes a conceptual framework for modern bioinformatics, an introduction to key bioinformatics topics such as databases and software, sequence analysis, pairwise alignment, multiple sequence alignment, sequence database searches, and profile-based methods, molecular phylogenetics, genomic analysis and personal genomics. Lectures include hands-on inquiry using bioinformatics tools in the practical sessions. The course requires students to take a prerequisite of General Biology.

Language(s) of Instruction
English

Host Institution Course Number
ZB2101

Host Institution Course Title
INTRODUCTORY BIOINFORMATICS

Host Institution Course Details
https://nusmods.com/courses/ZB2101/introductory-bioinformatics

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department
Biological Sciences

Course Last Reviewed
2024-2025

Print