
Code	BENG506
Name	Bioinformatics
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall and Spring
Type	Elective
Prerequisites	-
Content	This hands-on type course is designed to introduce the most important and basic concepts, methods, and tools used in bioinformatics. Topics include bioinformatics databases, sequence and structure alignment, homology search, protein folding, protein-protein interaction, protein structure prediction, molecular evolution, Monte Carlo simulation, and molecular dynamics. Upon completion of the course, the students should have the knowledge on the frontier of bioinformatics and be able to utilize the bioinformatics tools for their research projects.
