

Code	BENG533
Name	Biophysics
Hour per week	3 (3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate / Anytime
Semester	Fall and Spring
Type	Elective
Prerequisites	-
Content	Biophysics involves the application of physicochemical concepts and techniques to observation and understanding of biological phenomena at the atomic scale. This course is intended to introduce the most important and basic concepts, methods, and tools used in biophysics fields in order to understand macromolecular structures and underlying atomic interactions in terms of thermodynamics and kinetics. Topics include cell membranes and signaling pathways, microscopy, single molecule techniques, spectroscopy, structure determination, modeling and simulations.