PHYS5610\_Introduction to biophysics and computer simulations of biomolecules\_

Prof Wang Yi

Biophysics investigates biological phenomena using theoretical and experimental approaches derived from physics, such as statistical mechanics, fluid mechanics, and optics. This course provides an introduction to biophysics for students with no biology background. Students will be introduced to basic biology and physics concepts relevant to the course, followed by topics including the functions of biomolecules, physics of cellular behaviour, and molecular simulation techniques. Through this course, students will become familiar with the scope and basic approaches of biophysics research, learn how to perform computer simulations on biomolecules, and develop interest in exploring new territories of biophysics.