

CHEM4311 - Classical Simulations for Biological and Condensed Systems

[CHEM 4311](#) Classical Simulations for Biological and Condensed Systems (3 semester credit hours)
This course will focus on the application of the classical simulations to investigate and understand bio-related problems. The topics covered in this class include force field development, molecular dynamics (MD) simulations, free energy methods, and hybrid quantum mechanics and molecular mechanics (QM/MM) simulations. Prerequisites: ([CHEM 3361](#) or [BIOL 3361](#)) and [CHEM 3321](#) and [CHEM 3322](#). (3-0) R