

Chemistry 345 : Physical Chemistry I: Quantum Chemistry and Spectroscopy

This course is the first of a two-semester sequence exploring the fundamental behavior of chemical systems in terms of the physical principles which govern their behavior. The specific focus is on the quantum behavior of matter as it pertains to atomic energies, bonding, reactivity, and spectroscopy. The course will also include the use of applied mathematical techniques and spectroscopic analyses of representative systems to provide concrete examples and applications of the course material. Meets four hours per week.

Credits 4

Credit Type

[Academic](#)

Prerequisites

Required: Chemistry 126 or 140.

Highly recommended: One year of high school physics or one semester of college-level physics.

Semester Offered

Fall