

# CHEM-350 : Introduction to Quantum and Statistical Mechanics

This course is an introduction to quantum theory and statistical mechanics with an emphasis on their application to spectroscopy and thermodynamic properties. Students will be introduced to and perform relevant calculations. The results of these calculations will then be used to introduce and develop the theory behind various spectroscopic techniques as well as develop the relationships between statistical mechanics and thermodynamic properties. Students will also gain hands-on experience working with several spectroscopic instruments. Three year cycle.

**Credits** 3

**Prerequisites**

CHEM-162; MATH-130 or MATH-132

**Term Offered**

Fall and Spring

**Session Cycle**

FS