

# CHEM 556. ADVANCED QUANTUM MECHANICS.

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Credits: 3

Offered by: Chemistry (Faculty of Science)

Terms offered: Fall 2025

[View offerings for Fall 2025 in Visual Schedule Builder.](#)

## Description

Quantum mechanical treatment of species of chemical interest.

Introduction to perturbation theory, both time-dependent and time-independent. Treatment of the variational principle. Introduction to atomic spectra. Chemical bonding in terms of both the valence bond and molecular orbital theory. Elementary collision theory. Interaction of radiation with molecules.

- Prerequisites: CHEM 345 and PHYS 242
- Fall
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