

CHEM 603. PRINCIPLES AND APPLICATIONS OF MATERIALS CHARACTERIZATION.

Credits: 3

Offered by: Chemistry (Graduate Studies)

Terms offered: Fall 2025

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Description

Fundamentals of materials characterization methods and their applications in materials chemistry. Topics include static and dynamic mechanical testing, vibrational spectroscopy (Raman and FTIR), surface-based spectroscopies (XPS, Auger), advanced electron microscopy methods, X-ray absorption spectroscopy and X-ray diffraction (pXRD, WAXD, SAXS).

- Prerequisite(s): CHEM 355 or equivalent, or permission of instructor

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