CHEE 688. ADVANCED MATERIALS IN CHEMICAL ENGINEERING.

Credits: 4

Offered by: Chemical Engineering (Graduate Studies)

Terms offered: Fall 2025

View offerings for Fall 2025 in Visual Schedule Builder.

Description

Fundamentals of materials science and engineering for chemical engineers, applying thermodynamic, transport, reaction kinetics principles to thesynthesis, characterization and performance of advanced nano-, micro- and meso-structured materials, polymer solutions, gels, colloidal dispersions, emulsions, natural materials, bioinspired materials, and composites. Applications of advanced materials in chemical engineering, including design for sustainability, and environmental/health considerations. Critical analysis of contemporary advanced-materials research literature.

· 3-0-9

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