

# CHEE 585. FOUNDATIONS OF SOFT MATTER.

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Credits: 3

Offered by: Chemical Engineering (Faculty of Engineering)

This course is not offered this catalogue year.

## Description

Introduction to soft condensed matter. Atomic and molecular origins of hydrodynamics and elasticity. Microscale order and disorder, phase transitions and dynamics. Polymer solutions, melts and gels. Surfactants, self-assembled structures, and fluid membranes. Colloidal dispersions, their dynamics, gels and crystals. Liquid crystals. Integration of the foregoing topics with modern experimental techniques in soft-matter research.

• (3-0-6)

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