

CHEE 515. INTERFACE DESIGN: BIOMIMETIC APPROACH.

Credits: 3

Offered by: Chemical Engineering (Faculty of Engineering)

Terms offered: Fall 2025

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

Description

Investigation of the factors that cause biological surfaces to have superb functionalities; chemical and physical concepts responsible for the respective interfacial phenomena, such as surface tension, thermodynamics, kinetics, electrical double layers, surface wetting, adhesion and structural coloration; comparison of nature's solutions to engineering problems with synthetic approaches.

- Restriction: Not open to students who have taken or are taking MIME 515
- (3-0-6)
- Prerequisites: (CHEE 310 and CHEE 380) or (CHEM 233 and MIME 261 and MIME 317) or permission of instructor

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