

# MECH 547. MECHANICS OF BIOLOGICAL MATERIALS.

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Credits: 3

Offered by: Mechanical Engineering (Faculty of Engineering)

Terms offered: Winter 2026

[View offerings for Winter 2026 in Visual Schedule Builder.](#)

## Description

Mechanics of proteins (collagen, keratin), polysaccharides (cellulose, chitin), cells, skin, bone, teeth, seashells, insect and arthropod cuticles. Emphasis on microstructure-property-function relationships and on multiscale approach. State-of-the-art experimental and modelling techniques. Self-healing and adaptive biological materials.

- (3-1-5)
- Prerequisites: MECH 210, MIME 260 or MIME 261, or permission of instructor

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