

DENT 688. BONE MECHANOBIOLOGY

Credits: 3

Offered by: Dental Med & Oral Health Sci (Graduate Studies)

Terms offered: Fall 2025, Winter 2026

View offerings for Fall 2025 or Winter 2026 in Visual Schedule Builder.

Description

Foundational theories in mechanobiology in the context of skeletal tissues (namely, bone, growth plate cartilage, and periodontal tissues). Brief introduction to structure- function relations in bone, mechanical strain, and fluid flow. Emphasis is placed on the concepts of bone adaptation to biomechanical loading patterns, mechanobiology at the tissue level and mechanotransduction at the cellular level. Research methodologies and applications to disease are discussed.

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