

# EGSC 420 : Mechanical Properties of Materials

Mechanical properties and their dependence on microstructure in a range of engineering materials Elementary deformation and fracture concepts, strengthening and toughening strategies in metals and ceramics. Including dislocation theory, mechanisms of hardening and toughening, fracture, fatigue, and high-temperature creep.

**Semester Hours** 3.0

**Prerequisites**

EGSC 320 or CHEM 320.