

# University of Pretoria Yearbook 2019

## Chemical engineering materials 210 (CIM 210)

**Qualification** Undergraduate

**Faculty** [Faculty of Engineering, Built Environment and Information Technology](#)

**Module credits** 8.00

**Programmes** [BEng Chemical Engineering](#)  
[BEng Chemical Engineering Engage](#)

**Prerequisites** CHM 181

**Contact time** 2 lectures per week, 2 tutorials per week

**Language of tuition** Module is presented in English

**Department** Chemical Engineering

**Period of presentation** Semester 1

### Module content

Introduction to the synthesis, processing, structure, physical properties, and technical performance of important engineering materials: metals, ceramics, polymers and composites. Structural, mechanical, thermodynamic, and design related issues important to chemical engineering applications. Materials specification with emphasis on the corrosion of metals and life time estimation for polymer components.

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