

University of Pretoria Yearbook 2016

Biotechnology 310 (CBI 310)

Qualification Undergraduate

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

Module credits 16.00

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

Prerequisites (CIR 211), (CHM 215)

Contact time 1 practical per week, 2 lectures per week

Language of tuition Both Afr and Eng

Academic organisation Chemical Engineering

Period of presentation Semester 1

Module content

Characterisation and taxonomy of biological material. Biochemistry and the chemistry of life. Biological growth requirements, metabolism, growth kinetics and product formation. Enzyme chemistry and kinetics, basic stoichiometry of biological reactions as well as mass - and energy balances for these processes using a chemical engineering approach. Biological reactor, operation and downstream processing.

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