

University of Pretoria Yearbook 2022

Biochemical engineering 310 (CBI 310)

Qualification Undergraduate

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

Module credits 16.00

NQF Level 07

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

[BEng \(Chemical Engineering\) ENGAGE](#)

Prerequisites (CIR 211), (CHM 215), (WTW 256), MPR 213

Contact time 3 practicals per week, 4 lectures per week

Language of tuition Module is presented in English

Department 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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