

# University of Pretoria Yearbook 2021

## Bio-reaction engineering 732 (CRH 732)

<b>Qualification</b>	Postgraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	32.00
<b>NQF Level</b>	08
<b>Programmes</b>	<a href="#">BEngHons Chemical Engineering</a>
<b>Prerequisites</b>	Admission to relevant programme.
<b>Contact time</b>	32 contact hours per semester
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Chemical Engineering
<b>Period of presentation</b>	Semester 1

### Module content

In depth understanding of the important metabolic pathways in microorganisms, black box models for describing stoichiometry of bioreactions, metabolic flux analysis as the basis for metabolic (genetic) engineering, kinetics of microbial conversions and basic bioreactor design.

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