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# University of Pretoria Yearbook 2016

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## Chemical engineering 123 (CIR 123)

<b>Qualification</b>	Undergraduate
<b>Faculty</b>	<a href="#">Faculty of Engineering, Built Environment and Information Technology</a>
<b>Module credits</b>	8.00
<b>Programmes</b>	<a href="#">BEng Chemical Engineering</a> <a href="#">BEng Chemical Engineering Engage</a>
<b>Prerequisites</b>	CIR 113, CHM 171 GS
<b>Contact time</b>	2 tutorials per week, 2 lectures per week
<b>Language of tuition</b>	Both Afr and Eng
<b>Academic organisation</b>	Chemical Engineering
<b>Period of presentation</b>	Semester 2

### Module content

Chemical reaction and stoichiometry, excess reactant, conversion, yield, selectivity. Material balances with recycle streams, bypass streams and purge streams. Gases, vapours and liquids: ideal gas law, SG and density of gases, Nm<sup>3</sup>. Material balances where gases are involved. Fuels and combustion: coal analysis, combustion calculations.

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