Material and Energy Balances in the Chemical Process Industry

Overview

In this course, the relationships between the integration of thermodynamics and mass and energy balance in chemical plants are elucidated. Students will learn to solve chemical process problems involving several unit operations, gases and liquids, recycle, bypass or purge streams and chemical reactions. More detailed mechanisms of mass transfer such as diffusion and convection will be provided for fixed and free interfaces and for simple geometries. Particular emphasis will be placed on using these concepts to show how the interactions between chemical process plant and the environment arise and how the same concepts are used to control or mitigate the interactions.
Faculty
Faculty of Engineering

School
School of Chemical Engineering

Study Level
Undergraduate

Offering Terms
Term 3

Campus
Kensington

Delivery Mode
Fully on-site

Indicative contact hours
6

Timetable
Visit timetable website for details
Course Outline

To access course outline, please visit:

CEIC2009 Course Outline
Fees

Commonwealth Supported Students $1191
Domestic Students $5970
International Students $5970

DISCLAIMER
Please note that the University reserves the right to vary student fees in line with relevant legislation. This fee information is provided as a guide and more specific information about fees, including fee policy, can be found on the fee website.

For advice about fees for courses with a fee displayed as "Not Applicable", including some Work Experience and UNSW Canberra at ADFA courses, please contact the relevant Faculty.

Where a Commonwealth Supported Students fee is displayed, it does not guarantee such places are available.
Pre-2019 Handbook Editions

Access past handbook editions (2018 and prior)

Pre-2019 Handbook Editions