Overview

Polymer and their manufacture play a very important part in our daily lives and the technologies that we use. This course will leads the student to an in-depth understanding of the chemistry and physics of polymers via interactive lectures, tutorials as well as hands on lab classes. We will cover fundamental polymer chemistry, i.e. polycondensations, polyadditions, ionic polymerizations and free radical polymerization, and learn what strategies are at our disposal to generate simple and complex macromolecular architectures including statistical and block copolymers as well as star and comb structures. In addition, the student will learn how knowledge of polymerization kinetics allows for a prediction of polymer molecular weight distributions. The polymer physics segment of the course will allow the student to develop an understanding of the physical properties of polymers in relation to their chemical structure. This course replaces POLY3011, POLY3012. Textbook: Odian, G, Principles of Polymerization, 3rd Ed., Wiley.
Faculty
Faculty of Engineering

School
School of Chemical Engineering

Study Level
Undergraduate

Offering Terms
Term 2

Campus
Kensington

Delivery Mode
Fully on-site

Indicative contact hours
5

Timetable
Visit timetable website for details
Conditions for Enrolment

Pre-requisites: CHEM2021 or CEIC2004
Course Outline

To access course outline, please visit:

POLY3000 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. Fees for courses delivered through UNSW Global are published and charged by UNSW Global and thus appear as "Not Applicable" on this site.

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)

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