

BACHELOR OF ENGINEERING (HONOURS) IN CHEMICAL ENGINEERING

(ARTICULATION PROGRAMME (1+3) WITH THE UNIVERSITY OF NEW SOUTH WALES, AUSTRALIA)

INTRODUCTION

This a 1+3 articulation programme with the University of New South Wales (UNSW), Australia. Students will be in ITB for year 1 of the program. Year 2, 3 and 4 will be at UNSW. The Degree is awarded by UNSW on successful completion of the programme. Student will start Year 2 in UNSW in the last week of July. This degree is fully accredited and recognised internationally. Successful completion of the BE degree program is accepted by the Engineers Australia, and the Institution of Chemical Engineers as sufficient academic qualification for corporate membership.

PROGRAMME AIMS

The Year 1 at ITB focuses on strengthening the students' fundamental knowledge in science and engineering. Stimulations of innovative thinking and exposure to the process engineering are introduced to the students at this level of the programme. This is to ensure that students are well equipped prior to joining UNSW at Year 2 to Year 4. The study of Chemical Engineering in Year 2 to Year 4 at UNSW is primarily through the School of Chemical Engineering and Industrial Chemistry. (www.ceic.unsw.edu.au). Chemical Engineering is the application of the principles of the physical sciences, together with the principles of economics and human relations, to fields in which matter undergoes a change in state, energy content or composition. The chemical engineer is generally responsible for the design, construction and operation of plant and equipment used in the chemical processing industries.

CAREER PATHS

Chemical engineers are employed in a very wide range of industries including the chemical, minerals, pharmaceutical, food and energy industries. Many chemical engineers work in environmental management, research and development business, management and computer applications.

Entry Requirements

General Entry Requirements:

- At least a credit six in Malay Language at GCE Ordinary Level (*Applicable only to local Bruneian students applying for the award of Brunei Government Scholarships*).
- At least a credit six in Mathematics at GCE Ordinary Level.
- At least a credit six in English Language at GCE Ordinary Level or an IELTS score of 6.0 within the last two years or a TOEFL minimum overall score of 550 or its equivalent.

Programme Entry Requirements:

The minimum entry requirements to the Year 1 of the Bachelor of Engineering (Honours) in Chemical Engineering programme are:

- A minimum of 240 'A' Level points for 3 'A' level passes, must be Physics, Chemistry and Mathematics (excluding Further Mathematics) at grade 'C' or higher.
- **OR**
- An International Baccalaureate score of 32 points preferably with minimum of 5 points in Physics, Mathematics and/or Chemistry at higher level.

BEng (Hons) Chemical Engineering Programme Structure

YEAR 1 at ITB

Semester 1	
	Introduction to Computer Systems and Information Technology
	Communication Skills for Engineering 1
	Engineering Mathematics 1
	Introductory Physics 1
	General Chemistry 1
	Introduction to Engineering Design and Innovation Part 1
	Introduction to process engineering Part 1
Semester 2	
	Communication Skills for Engineering 2
	Engineering Mathematics 2
	Introductory Physics 2
	General Chemistry 2
	Introduction to Engineering Design and Innovation Part 2
	Introduction to process engineering Part 2

Disclaimer: ITB reserves the right to make any necessary changes to the programme without any prior notice.

**** YEARS 2, 3 and 4 at UNSW**

FURTHER INQUIRIES

For further information and details regarding the programme, please contact:

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