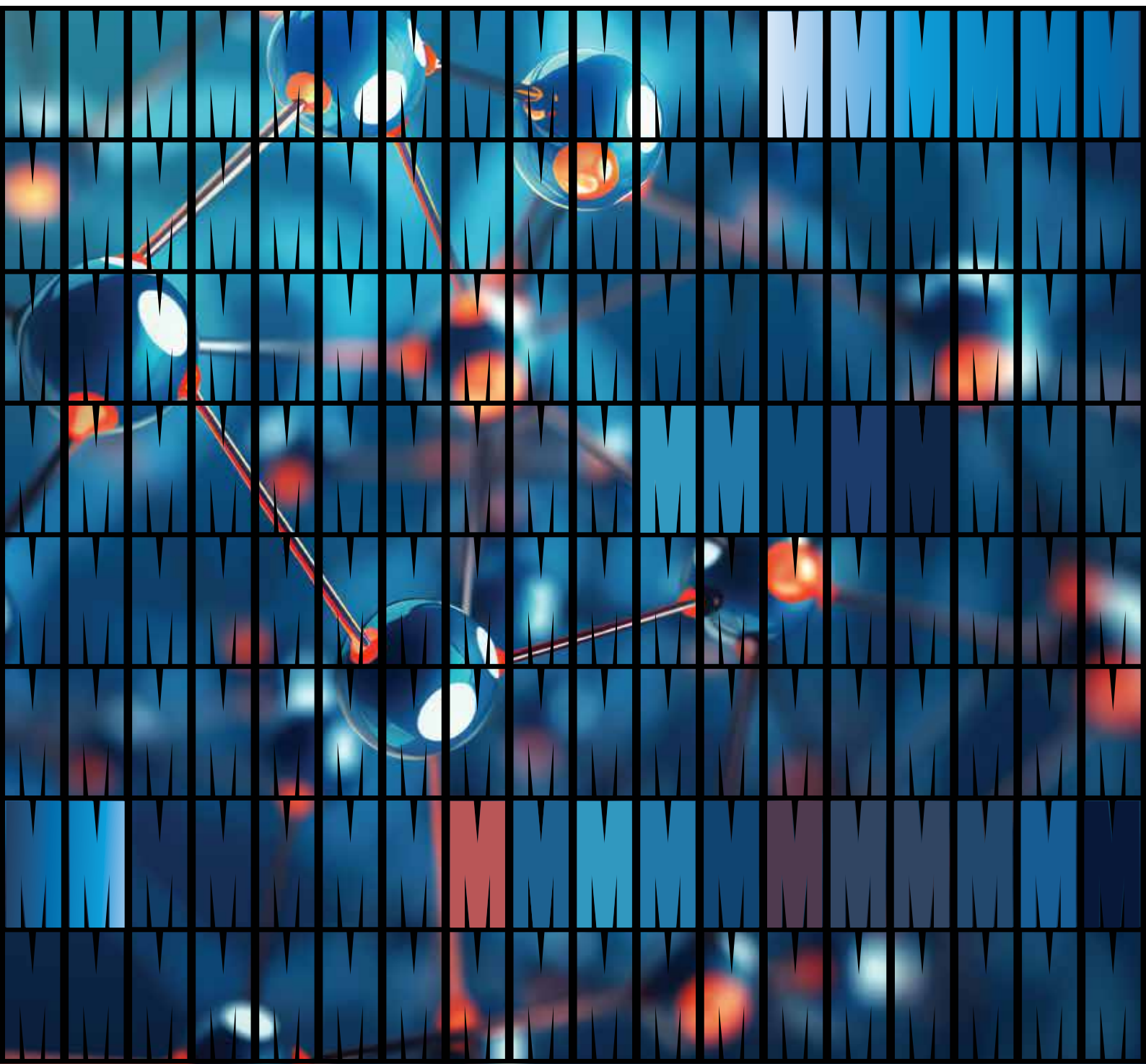


Bachelor of Chemical Engineering (Honours)

The Undergraduate Credit Transfer Program
2025



MONASH UNIVERSITY MALAYSIA-MAHIDOL UNIVERSITY

UNDERGRADUATE

CREDIT TRANSFER PROGRAM

The undergraduate credit transfer program, jointly developed by Monash University Malaysia and Mahidol University, allows eligible students to complete the first two years of their Bachelor of Engineering in Chemical Engineering (International Program) at Mahidol University, followed by a minimum of two years of a four-year Bachelor of Chemical Engineering (Honours) at Monash University Malaysia.

Students will be awarded a Bachelor of Chemical Engineering (Honours) degree by Monash University.

RANKINGS

#37

QS WORLD UNIVERSITY RANKINGS 2025

#42

MOST INTERNATIONAL UNIVERSITIES
IN THE WORLD

Times Higher Education 2024

#54

TIMES HIGHER EDUCATION
WORLD UNIVERSITY RANKINGS 2024

#43

IN THE WORLD FOR CHEMICAL ENGINEERING
QS WORLD UNIVERSITY RANKINGS BY SUBJECT
2024

#54

IN THE WORLD FOR ENGINEERING
TIMES HIGHER EDUCATION WORLD UNIVERSITY
RANKINGS BY SUBJECT

RATED TIER 5 (EXCELLENT)

IN D-SETARA ENGINEERING BY
THE MINISTRY OF EDUCATION MALAYSIA

STUDYING AT MONASH

Monash University is a dynamic and internationally recognised university with a long-established tradition of excellence in education. Ranked consistently in the top 100 universities in the world, we are highly regarded for our innovative approach to teaching, learning and research.

Nestled in the heart of Sunway City, Monash University Malaysia offers a delightful combination of scenic open spaces and modern facilities in a student-friendly, cosmopolitan township. You'll get the same outstanding education, access the same resources and global connections, and graduate with the same prestigious Monash degree as your peers in Australia.

It's the best of both worlds at a university closer to home.

9700+
STUDENTS FROM
77 COUNTRIES

21:1
STUDENT TO ACADEMIC
STAFF RATIO

27%
OF OUR ACADEMIC
STAFF ARE EXPATRIATE

890+
STAFF FROM
35 COUNTRIES

85%
OF OUR ACADEMIC STAFF
HOLD A DOCTORAL DEGREE

27,500+
MONASH MALAYSIA
GRADUATES



Scan to take a virtual tour of
our campus.

virtualtour.monash.edu.my

THE MONASH EXPERIENCE

Qualified and accredited

Recognised by Engineers Australia and the Washington Accord, our engineering graduates are accredited to work in Australia and other countries including Canada, China, India, Japan, Singapore, UK and USA. Your Bachelor of Chemical Engineering (Honours) is also accredited by the Engineering Accreditation Council Malaysia.

Industry experience

You'll go on a 12-week work placement where you'll apply what you've learnt to real-life situations, enhance your technical and professional skills and build industry connections.

World-class facilities

Thrive in our interactive learning spaces and world-class engineering facilities such as our in-house pilot plant. You'll have the opportunity to conceptualise, design, and implement chemical processes in a controlled environment, simulating the challenges and intricacies of the industry.

Explore research

Take a deeper dive to gain research experience via final-year projects and research programs. You'll learn from lecturers who are leading researchers in their field and experience a genuine research environment.

Minors

Use your elective slots to complete a minor from another engineering discipline or emerging field in your third year, and expand your career opportunities. Choose from these exciting areas:

- Artificial intelligence in engineering
- Sensory system in industry 4.0
- Intelligent manufacturing
- Energy transition
- Electric vehicle technology
- Internet of Things
- Semiconductor
- Decarbonisation and net zero.

Study abroad

Spend a semester at one of our Australian campuses with no added costs to your regular course fees (consult course director for application process and course progression).

Student teams

Compete in local and international competitions whilst working alongside team sponsors and industry partners. You'll hone your skills and gain real-world exposure. Our chemical engineering students have participated and won in competitions like Shell Eco-marathon Asia and National Chem-E-Car Malaysia.

“

I am very grateful for my bachelor's and PhD education at Monash, which laid a solid foundation for both my technical knowledge and research skills. The research facilities at Monash are comparable to those at many of the top universities in the world. I appreciate the exposure that I received during my time at Monash."

Dr Kong Xin Ying

Bachelor of Engineering (Honours) in Chemical Engineering
Doctor of Philosophy in Engineering (Chemical)
Lee Kuan Yew Research Fellow, Nanyang Technological University
World's Top 2% Scientists by Stanford University

Only 9% of plastic waste is recycled, 11% incinerated, and 70% accumulates in the environment. By 2050, there may be more plastic than fish in the ocean. This concern inspired Xin Ying to develop a green technology that upcycles plastics into valuable chemicals and fuels using a metal-free catalyst. Her technology reduces plastic decomposition time from up to 1000 years to just one day using light as the sole energy source to drive the reaction, and produces chemical feedstocks for solvents, antiseptics, food additives, fragrances, and carriers for clean hydrogen fuel.

Xin Ying received the prestigious Merdeka Award Grant in 2023 and was recognized in MIT Technology Review's 35 Innovators Under 35 – Asia Pacific in 2024 for her groundbreaking work.



BACHELOR OF CHEMICAL ENGINEERING (HONOURS)

KPT/JPT (R/524/6/0045) 03/27 - MQA/FA4650

At Monash, practical work is an integral part of the chemical engineering curriculum.

This hands-on approach allows you to apply theoretical knowledge to real-world situations and gain valuable experience in the field. Through practical projects, you'll develop problem-solving skills, critical thinking abilities, project management skills, and a deeper understanding of the principles of chemical engineering.

What you'll learn

In year three, you'll be exposed to core topics in chemical engineering such as separation processes, reaction engineering, process design, process control and more. You'll develop knowledge and skills in developing chemical processes through a mix of workshops, case studies and hands-on experience in laboratory and simulation practice classes.

During year four, you'll be given the opportunity to undertake a substantial individual or group project to integrate and demonstrate your knowledge in chemical engineering. You'll undertake an independent full-year research project in an area of personal interest. Your units aim to develop your core professional skills, including design of chemical equipment and processes, process safety, environmental impact and economic evaluation.

General Studies

All undergraduate students at our Malaysian campus are required to complete and pass the General Studies units, as required by the Ministry of Higher Education Malaysia. This is a prerequisite for the award of an undergraduate degree.

monash.edu.my/general-studies

Program Structure A

Mahidol University Campus: Salaya, Nakhon Pathom, Thailand	
Bachelor of Engineering in Chemical Engineering (International Program)	
Years 1 and 2	Students must obtain an average of 70% or equivalent GPA (including failed and repeated units). All the equivalent transferred units must score at least 60% (or equivalent GPA) or a better grade.
Monash University Campus: Malaysia	
Bachelor of Chemical Engineering (Honours) (To complete 120 Credit Points)	
Semester 1 (February–June)	ENG1011 Engineering methods One Level 1 elective unit Two Level 2 elective units
Semester 2 (July–November)	CHE2163 Heat and mass transfer CHE3162 Process control CHE3164 Reaction engineering CHE3166 Process design
Summer Semester (December–February)	ENG0002 Industrial training (minimum 12 weeks)
Semester 3 (February–June)	CHE3165 Separation processes CHE3167 Transport phenomena and numerical methods CHE4161 Engineers in society One Level 3 elective unit - CHE3163 Sustainable processing I
Semester 4 (July–November)	ENG4701 Final year project A CHE4170 Design project One Level 3 elective unit
Semester 5 (February–June)	CHE4162 Particle technology ENG4702 Final year project B Two Level 4 elective units

Program Structure B

Mahidol University Campus: Salaya, Nakhon Pathom, Thailand	
Bachelor of Engineering in Chemical Engineering (International Program)	
Years 1 and 2	Students must obtain an average of 70% or equivalent GPA (including failed and repeated units). All the equivalent transferred units must score at least 60% (or equivalent GPA) or a better grade.
Monash University Campus: Malaysia	
Bachelor of Chemical Engineering (Honours) (To complete 96 Credit Points)	
Semester 1 (February–June)	ENG1011 Engineering methods One Level 1 elective unit One Level 2 elective unit One Level 3 elective unit
Semester 2 (July–November)	CHE3162 Process control ENG4701 Final year project A CHE3166 Process design One Level 3 elective unit
Summer Semester (December–February)	ENG0002 Industrial training (minimum 12 weeks)
Semester 3 (February–June)	CHE3167 Transport phenomena and numerical methods CHE4161 Engineers in society CHE4162 Particle technology ENG4702 Final year project B
Semester 4 (July–November)	CHE4170 Design project Two Level 4 elective units

ADMISSION REQUIREMENTS

Academic

Successful completion of the first two years of the Bachelor of Engineering in Chemical Engineering (International Program) at Mahidol University, with an average of 70% or equivalent GPA (including failed and repeated units) in the years completed.

All the equivalent transferred units must score at least 60% (or equivalent GPA) or a better grade.

Applicants must also meet the course entry score and prerequisite subject: Mathematics and at least one of Chemistry or Physics (Australian Higher Year 12 equivalent) based on the admission requirement of Monash University Malaysia.

Students must satisfy both the Monash University entry requirements and Malaysian Qualification Agency (MQA) requirements/Program Standards (including successful completion and passing of a recognised Year 12 qualification by the Malaysian Government).

English language

Students must also meet the Monash minimum English requirements in one of the following English language tests:

- IELTS (Academic)/IELTS One Skill Retake (Academic)/IELTS Online – Overall band score of 6.5 with no band less than 6.0. www.ielts.org
- TOEFL iBT/TOEFL iBT Paper Edition – A total score of 79 with 12 in Listening, 13 in Reading, 21 in Writing and 18 in Speaking. www.ets.org
- Pearson Test of English (Academic) – Overall score of 58 with no Communicative Skills lower than 50. www.pearsonpte.com
- C1 Advanced/C2 Proficiency – Overall score of 176 with no skill score lower than 169. www.cambridgeenglish.org
- Monash English Bridging. monash.edu.my/monash-english

In order for the above English Proficiency tests to be considered they must be taken within 24 months prior to the course commencement date.

Monash University does not accept TOEFL iBT Special Home Edition, Pearson Test of English (Academic) Online and Cambridge Linguaskill General as satisfying the English entry requirement for any Monash course.

HOW TO APPLY

1 Prepare

We're waiving our RM100 application fee for students from our transnational education partner. Request a unique application fee waiver code from Mahidol University before submitting your application.

You're also required to complete the Credit Application form and upload it to the online portal.

5 Submit your student pass application

6 Apply for a single entry visa (if required)

Visit the Education Malaysia Global Services's website for more information on SEV-required countries:

visa.educationmalaysia.gov.my/guidelines/sev-required-countries.html

Application deadlines

- Semester 1 (March–June) - late November
- Semester 2 (July–November) - late April

2 Apply

Visit monash.edu.my/apply-online to apply online.

You must provide a copy of all documents:

- Attached copy of your IC/Passport information page.
- Attached copy of all academic transcripts and/or work experience.
- If documents are in a language other than English, English-translated copies must also be provided.
- Applications will only be processed once all the required documentation is received.

You'll be advised on whether:

- you should apply directly via the Education Malaysia Global Services portal at visa.educationmalaysia.gov.my/customer/account/login/
- Monash will submit on your behalf.

monash.edu.my/student-pass

4 Accept your offer

Accept the offer before the deadline stated in your Offer Letter with the relevant fee payments.

monash.edu.my/accept

3 Your application is assessed

Your application will be assessed according to the University's entry requirements. If you meet all the conditions of entry, you'll receive a Full Offer Letter.

7 Plan your arrival

Arrange for accommodation if needed, and for international students, book your plane ticket to Kuala Lumpur and sign up for your airport reception.

monash.edu.my/lets-begin

8 Participate in orientation

Orientation is designed to help you adjust to life at Monash University Malaysia. You should arrive at the University in time for this program, which starts one week before the new semester commences.

monash.edu.my/orientation

Course fees

Course fees for international students commencing the Bachelor of Chemical Engineering (Honours) in 2025 is RM62,880¹ per year.

¹ Fees quoted are based on a standard full-time load (48 credit points). Monash University Malaysia reserves the right to adjust the annual tuition fees in future years of your course. Any adjustments will be applied on the first day of January each year.

General fees

- Registration (once only) **RM200**
- General amenities **RM100** (per semester)

Monash study bursaries

Monash University Malaysia is pleased to offer a transnational education partner discount to eligible Mahidol University students. You'll receive a 10% tuition fee waiver for the two years of your Bachelor of Chemical Engineering (Honours) studies, subject to meeting the eligibility criteria and maintenance conditions.

STUDENT ACCOMMODATION

Living on-campus

On-campus accommodation is a three-minute walk from campus and is supported by live-in staff and resident mentors, making campus life a breeze. There's also 24-hour security on campus, and a thriving events and activities program to help you settle into your new community. Prices range from approximately RM860 to RM2300 monthly. You can choose from twin or single rooms, single ensuite to studio apartments.

sunway.edu.my/residence/

Off-campus options

Prices will most likely vary depending on where you choose to live, but the cost typically averages around RM700 to RM860 per month.



Living expenses

Before you begin your studies at Monash, it's a good idea to plan and prepare a budget. Below are some costs associated with living and studying in Malaysia, but they depend on your personal lifestyle choices and should only be used as an approximate guide. Generally, Malaysia is an affordable country.

- Phone and internet: RM30 to RM80 per month
- Groceries: RM50 to RM80 per trip
- Eating out: RM6 to RM50 per meal
- Clothing: From RM30
- Entertainment: From RM12 per event.

LIVING IN MALAYSIA

Malaysia is a wonderfully unique country that has captivated generations with its natural beauty, cultural diversity and the warmth of its people. It's a great destination for learning and adventure.

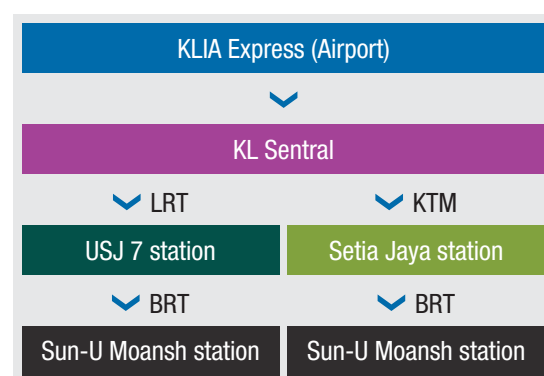
Studying in Sunway

Sunway City is a friendly and safe township where you'll have everything you need within reach. Eateries, hotels, banks, a medical center, a shopping mall, and even a water theme park are all easily accessed using a monitored elevated pedestrian walkway or public transport.

Want to go farther? From Sunway City, you're less than an hour away by train to the Kuala Lumpur city centre where you can visit iconic landmarks and attractions such as the Petronas Twin Towers, Central Market, Islamic Arts Museum, KL Bird Park and more.

Getting to Monash

Our campus in Sunway is well connected with great transport links. Whether you choose to drive or take public transport, getting to uni is incredibly easy.



CONTACT US

Business hours

Monday to Friday 8.30am-6pm

Counselling hours for course enquiries

Monday to Friday 9am-5pm

Closed on weekends and public holidays

Enquiries

T +60 3 5514 6000

F +60 3 5514 6001

E mum.enquiry@monash.edu

Address

Monash University Malaysia

Jalan Lagoon Selatan

47500 Bandar Sunway

Selangor Darul Ehsan

Malaysia

monash.edu.my/engineering



[monashmalaysia](https://www.facebook.com/monashmalaysia)

The information in this brochure was correct at the time of publication (November 2024).
Monash University Malaysia reserves the right to alter this information should the need arise.

Produced by Marketing and Future Students,
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DULN002(B)

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