Curtin Malaysia is a place where curious minds come together. If you are fascinated by everything around you, and like to ask questions and experiment with new ideas, then we can help you develop the knowledge and practical, real-world skills that you’ll need to make tomorrow better.

In fact, the Curtin engineering or science degree you will earn can help you to discover a whole new world. You’ll learn how to apply your studies to real industry challenges and situations, and have opportunities to work in environments where research and discovery abound.

Our Faculty of Engineering and Science is committed to the enhancement of teaching and research and the pursuit of excellence and innovative applications of engineering technology as a contribution to the advancement of scientific knowledge, understanding and community relevance.

The Curtin Engineering and Science courses we offer are recognised and accredited by relevant professional bodies such as the Engineering Accreditation Council (EAC) Malaysia, Board of Engineers Malaysia (BEM), Engineers Australia (EA), Institution of Chemical Engineers UK, Australian Computer Society (ACS), Australian Society of Exploration Geophysicists, Society of Exploration Geophysicists (USA), European Association of Geoscientists and Engineers, Australasian Institute of Mining and Metallurgy, and Geological Society of Australia.

Curtin Malaysia is ranked in the top one per cent of universities worldwide and Top 100 in the world for Civil and Structural Engineering.

1. Application closing dates and orientation dates are subject to change and may vary depending on the course. Dates are for Malaysia. Contact other campuses directly for details.

ACADEMIC CALENDAR

Our engineering and science courses are currently taught on a semester basis.

SEMMESTERS 2019/2020 (Foundation)

<table>
<thead>
<tr>
<th>Applications close</th>
<th>SEMESTER 2 2019</th>
<th>Two weeks before orientation</th>
<th>SEMESTER 1 2020</th>
<th>Two weeks before orientation</th>
<th>SEMESTER 2 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation Week</td>
<td>23-26 July</td>
<td>18-21 February</td>
<td>21-24 July</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester starts</td>
<td>29 July</td>
<td>24 February</td>
<td>27 July</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester ends</td>
<td>22 November</td>
<td>19 June</td>
<td>20 November</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SEMMESTERS 2019/2020 (Degree)

<table>
<thead>
<tr>
<th>Applications close</th>
<th>SEMESTER 2 2019</th>
<th>Two weeks before orientation</th>
<th>SEMESTER 1 2020</th>
<th>Two weeks before orientation</th>
<th>SEMESTER 2 2020</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orientation Week</td>
<td>6-9 August</td>
<td>17-20 March</td>
<td>4-7 August</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester starts</td>
<td>13 August</td>
<td>23 March</td>
<td>10 August</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Semester ends</td>
<td>29 November</td>
<td>10 July</td>
<td>27 November</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
This course prepares students for undergraduate study in Engineering and Science, Computing and Information Technology. In addition to several units that are common to all Foundation courses, students study units in Engineering Mathematics, Physics and Chemistry and Programming in C++.

Pathways to further study at Curtin Malaysia
Students with satisfactory results in the Foundation Studies - Engineering and Science Stream programme can enter degree programmes such as:
- Bachelor of Engineering (Hons) (Chemical, Civil and Construction, Environmental, Electrical & Electronic, Mechanical, Petroleum)
- Bachelor of Technology (Computer Systems & Networking)
- Bachelor of Science (Applied Geology, Computing, Health, Safety and Environment)
- Bachelor of Applied Science (Construction Management)

Further study at Curtin Perth
Students who obtain satisfactory results in the Foundation Studies courses are eligible for admission to a range of undergraduate programmes at the main campus.

ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>GCE ‘O’ Level</td>
<td>5C including English or 5C and English competency.</td>
</tr>
<tr>
<td>SPM Engineering Stream</td>
<td>5 Credits including English and Mathematics and pass in Add. Mathematics and one of the Science subjects (Physics or Chemistry or Biology)</td>
</tr>
<tr>
<td>SPM Science Stream</td>
<td>5 Credits including English and Mathematics and pass in one of the Science subjects</td>
</tr>
<tr>
<td>UEC</td>
<td>Grade B in 4 relevant academic subjects and English competency.</td>
</tr>
</tbody>
</table>

Any other Qualification will be considered on a case-to-case basis. Note: The entry requirements above serve as a guideline and subject to change.
ENGLISH AND ALTERNATIVE PATHWAYS

All Curtin courses are taught in English and applicants must demonstrate competence in English by meeting the Curtin English language requirements as outlined below:

Minimum English language Entry Requirements

Results for IELTS and TOEFL are valid for two years.

<table>
<thead>
<tr>
<th>ENGLISH QUALIFICATION</th>
<th>Foundation</th>
<th>Undergraduate</th>
<th>Postgraduate by Course</th>
<th>Postgraduate by Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS**</td>
<td>Overall 5.5 (no individual band below 5.0)</td>
<td>Overall 6.0 (no individual band below 6.0)</td>
<td>Overall 6.5 (no individual band below 6.0)</td>
<td>Overall 6.5 (no individual band below 6.0)</td>
</tr>
<tr>
<td>Test of English as a Foreign Language (TOEFL) (IBT)*</td>
<td>68 (band minimum W-21, L-13, R-13, S-18)</td>
<td>70 (band minimum W-21, L-13, R-13, S-18)</td>
<td>72 (band minimum W-21, L-13, R-13, S-18)</td>
<td>70 (band minimum W-21, L-13, R-13, S-18)</td>
</tr>
<tr>
<td>MUET</td>
<td>B</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>SPM English³</td>
<td>R</td>
<td>C</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>GCE 'D' Level</td>
<td>C</td>
<td>C</td>
<td>C³</td>
<td>C³</td>
</tr>
<tr>
<td>PTE Academic ( Pearson Test of English Academic)⁴</td>
<td>Overall 62</td>
<td>Overall 50 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
</tr>
<tr>
<td>MUET</td>
<td>Band 3 and no less than 140 in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
<td>Band 4 and no less than 200 in aggregate score</td>
</tr>
</tbody>
</table>

** Foundation: Applicants with IELTS 5.0 (no individual band below 5.0) are required to take the Academic English concurrently with the Foundation programme.

* Undergraduate: Applicants with IELTS less than 6.0 but achieved 5.5 (no individual band below 5.0) are required to take Curtin University Foundation English Units.

³ Foundation: Applicants with TOEFL less than 65 but achieved 60 (or above) are required to take the Academic English concurrently with the Foundation programme.

⁴ Foundation: Applicants with PTE Academic less than 42 but achieved 36 (or above) are required to take the Academic English concurrently with the Foundation programme.

⁴⁴ The English Entry requirement for Degree courses is IELTS band 6.5.

INTENSIVE ENGLISH PROGRAMME

The Intensive English Programme (IEP) is designed to improve students’ academic English language proficiency. This programme specifically caters for potential tertiary education students who lack the English language entry requirements to enter a Foundation or Degree course.

A Placement Test is administered to determine students’ command of English.

Based on the test results, students are placed at the appropriate IEP level. The minimum English requirement to do the Intensive English Programme is IELTS band 3.0 or IEP Placement Test band 3.0.

There are four levels in the IEP. Level I, II, III and IV, with four intakes/terms a year. Each term comprises 9 weeks and the course consists of 20 contact hours per week.

At the end of each nine-week term, students in Level I, II and III sit for an internal test, and based on their scores, they will be streamed to the appropriate levels. Students might skip a level or two if they meet the entry band requirement for each level respectively as illustrated in the diagram below. The exit test for Level IV is the Cambridge IELTS.

The above information is correct at time of publishing but may be subject to change. The table only shows the minimum English requirement for the respective programmes. Applicants must also meet the relevant academic qualifications for the respective programmes.

** The English Entry requirement for Degree courses is IELTS band 6.5.

Alternative Entry Pathways

Besides the Intensive English Programme, the Department of Culture and Language Studies offers the Pre-University English Unit which runs concurrently with the Foundation programme. This is a 6-hour per week unit for one whole semester. This unit aims to improve the students’ English language proficiency level to the standard required for undergraduate or postgraduate studies.

In addition, special academic learning needs are supported through the academic modules offered by the Office of Learning and Teaching.

When necessary, students from any programme are encouraged to join these 2-hour seminars and workshops (free of charge) with various topics such as Plagiarism, Academic English, Academic Listening and Note Taking, Sentence Mechanics, and others.
Undergraduate Degrees

Bachelor degrees

Courses leading to a first qualification, such as a bachelor degree award, are referred to as undergraduate courses. Bachelor degrees are usually three or four years long.

Honours programme

As a natural extension to a bachelor degree, Curtin offers honours programmes in most areas. A year of honours study consists of coursework at an advanced level and research or project work. In some courses, the honours programme is part of the final year of the degree programme.

Credit for Recognised Learning (CRL)

Curtin recognises students’ relevant prior studies or work experience, allowing some students to finish their degrees in a shorter period of time. CRL (or Advanced Standing) allows students to take advantage of - and be rewarded for - their previous studies.

Admission

For admission to Curtin Malaysia, applicants must satisfy minimum academic entry as well as English competency requirements. Entry is competitive and levels higher than the minimum may be required for admission to some courses. A list of the common academic entry requirements can be found in the following tables.

Students who have successfully completed and passed the Foundation Studies – Commerce and Arts Stream and Foundation Studies – Engineering and Science Stream courses are directly admitted to the respective Bachelor degree courses.

Students who have successfully completed a relevant Diploma of Business course may receive up to one year advanced standing in the respective degree courses.

Other qualifications that are also considered for undergraduate degree admission are reflected in the following tables.

As all courses are taught in English, applicants will need to meet Curtin’s English language requirement.

Any one of the tests in the following tables will be accepted as satisfying Curtin’s language requirement; however, some courses may require a higher score for English. Please refer to the individual course listings on the following pages for more information.

Course prerequisites

Bachelor of Engineering: Mathematics (including calculus), physics and chemistry.


Bachelor of Technology (Computer Systems and Networking): Mathematics.

Qualification | Minimum Entry Requirements
---|---
STPM | Sijil Tinggi Persekolahan Malaysia (STPM) (Malay medium) – A minimum of 5 points obtained from at least two but no more than three Sijil Tinggi Persekolahan Malaysia (STPM) subjects and fulfill English Entry Requirement; points calculated as follows: A1 = 8, A2 = 7, B3 = 6, B4 = 5, B5 = 4, B6 = 3, C7 = 2, C8 = 1

A Level | *A minimum of 5 points obtained from two or three Advanced Level subjects; OR two Advanced level subjects and a maximum of two Advanced Subsidiary Levels (AS) are required and fulfill English Entry Requirement; Points calculated as follows: Grades awarded up to 2009: A*=6, A=5, B=4, C=3, D=2, E=1 Grades awarded from 2010 onwards: A*=6, A=5, B=4, C=3, D=2, E=1 AS Levels equal half of that of an Advanced Level, e.g. 3 points for an A* 2.5 points for an A (prior to 2010);

UCEC | *Completion of the Malaysian Unified Examination Certificate (UCEC) (Senior Middle Level) with 15 points aggregated from the best five academic subjects and fulfill English Entry Requirement (Chinese, Malay and English subjects are excluded in the calculation of aggregate points). Points calculated as follows: A = 5, A- = 4, B+ = 4, B = 3, B- = 2, C+ = 2, C = 1

Foundation | *Completion of recognized Foundation program

Diploma | Completion of recognized Diploma program with CGPA 2.0 Bachelor of Commerce courses with Accounting major requires CGPA 2.5

Matriculation | Completion with CGPA 2.5

* Minimum entry requirement as stated in the Indicative Cut-off Score Any other qualification will be considered on a case-to-case basis.

Courses with subject pre-requisites also require specific grades or scores in individual subjects. The entry requirements above serve as a guideline and subject to change.

Note: Students with other qualification should contact Curtin Malaysia for further details.
### INDICATIVE CUT-OFF SCORES

<table>
<thead>
<tr>
<th>Course Name</th>
<th>GCE A Level (best of 3 subjects)</th>
<th>UCL (best of 3 subjects)</th>
<th>HKDSE</th>
<th>IB</th>
<th>Cumulative CGPA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Geology (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>Chemical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
<tr>
<td>Civil and Construction Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
<tr>
<td>Computer Systems &amp; Networking (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>Computing (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>Construction Management (BEng)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>Electrical &amp; Electronic Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
<tr>
<td>Environmental Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
<tr>
<td>Health, Safety and Environment (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
</tr>
<tr>
<td>Mechanical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
<tr>
<td>Petroleum Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
</tr>
</tbody>
</table>

**Cut-off scores key:**
- **GCE**: General Certificate of Education
- **STPM**: Sijil Tinggi Persekolahan Malaysia
- **IB**: International Baccalaureate
- **HKDSE**: Hong Kong Diploma of Secondary Education
- **India**: Includes All India Senior School Certificate awarded by the Central Board of Secondary Education (CBSE), Indian School Certificate (ISC) awarded by the Council for the Indian School Certificate Examinations (CISCE), Higher School Certificate (HSC) awarded by one of the State Secondary School Boards. Certificates awarded by the CBSE and the CISCE are generally considered to represent a higher level of achievement than state certificates.
- **Sri Lanka**: GCE A’ level issued by the Department of Examinations Score Conversion for Advanced level/GCE/GCSE: Grades awarded from 2010 onwards: A=6, A*=5, B=4, C=3, D=2, E=1. Grades awarded up to 2009: A=5, B=4, C=3, D=2, E=1. AS Levels equal half of that of an Advanced Level, e.g. 3 points for an A*, 2.5 points for an A (prior to 2010)
- **WAUFP**: Western Australian universities Preparatory Program
- **CPS**: Combined Percentage Score

**Note:** scores for individual prerequisites may be taken into consideration for assessment purposes.

The entry requirements above serve as a guideline and subject to change.

### THE CURTIN EXPERIENCE

Enriching our courses

Choosing a degree is a big decision, which is why we’ve made our undergraduate degrees even more flexible. You will have the freedom to follow your interests as you learn more about your field before choosing a major that suits your career goals.

Our Engineering degrees give you the opportunity to study in your area of interest without the pressure of choosing your major before you start your studies.

At Curtin Malaysia, you can choose from an extensive range of undergraduate and postgraduate courses and customise them to suit your needs, gain valuable work experience interacting with local and international industry professionals, learn from lecturers with real industry experience, and indulge in a unique international and cross-cultural learning environment studying with students from more than 45 countries.

Students who have successfully completed a relevant Diploma of Engineering course may receive up to one year advanced standing in the respective degree courses.

Building a reputation

You will find our campus offers the best possible facilities one would expect from Curtin’s first and largest international campus. In addition to being located in a modern, scenic city that is most conducive for tertiary studies, Curtin Malaysia offers a vibrant campus lifestyle with a mix of academic support services and exciting social events.

They include a new auditorium, library, computing facilities, counselling service, choice of food and beverage outlets, health services, public transport, banking facilities, shops, secure student housing, a range of sports facilities, as well as a modern recreation and event centre.

Assurance of quality

We are renowned for our links with industry and business, and for the practical and applied nature of our courses. Our courses are endorsed by the Malaysian Ministry of Higher Education, Malaysian Qualifications Agency and Malaysian Public Services Department (SPA), and accredited by professional bodies, where applicable, ensuring wide recognition.

All the courses we offer are run using the same unit structure and study materials as the courses at the main campus in Perth, meaning that you can transfer between two campuses to complete your Curtin degree. When you graduate, you will have a degree that is recognised in more places around the world and will be able to complete further study at either campus to enhance your career prospects.
ENGINEERING CAREER FINDER

There’s no better time to start a career in engineering. Curtin’s four-year Bachelor of Engineering degree combines theoretical grounding with a practical focus to make sure you’re job-ready on graduation. You’ll start your degree with the Engineering First Year, which will prepare you for discipline-specific study in any of the following areas of engineering.

**CHEMICAL ENGINEERING**
Find the best sequence of chemical and physical processing operations, and the right operating conditions, to convert raw materials into higher-value products.

**POSSIBLE CAREERS:**
- Chemical/Process Engineer
- Bioprocess Engineer
- Metallurgical Engineer
- Process Safety Engineer
- Research & Development Engineer

**COMPUTER SYSTEMS AND NETWORKING**
Computer networks form the backbone of the modern information systems. This course has been designed to help you to fully understand computer network design and development technologies.

**POSSIBLE CAREERS:**
- System Designer (IT)
- Analyst (IT)
- Systems Analyst
- IT Support Specialist
- Telecommunications Manager
- Network and System Administrator

**CIVIL AND CONSTRUCTION ENGINEERING**
Design and construct the infrastructure that is on or in the ground, and on which modern society depends.

**POSSIBLE CAREERS:**
- Municipal Engineer
- Construction Engineer
- Builder
- Project Builder

**MECHANICAL ENGINEERING**
Design and produce products and machines to harness the energy and forces that exist in nature.

**POSSIBLE CAREERS:**
- Mechanotronic engineer
- Mechanical engineer
- Electronic engineer
- Engineering data specialist

**PETROLEUM ENGINEERING**
Develop methods to increase oil and gas production from sub-surface reservoirs.

**POSSIBLE CAREERS:**
- Petroleum engineer
- Reservoir engineer
- Production/operation engineer
- Drilling engineer

**ENGINEERING CAREER FINDER**

**CONSTRUCTION MANAGEMENT**
The Construction Management degree prepares you for a wide range of professional roles in the building and construction industry.

**POSSIBLE CAREERS:**
- Quantity Surveyor
- Building technican
- Building surveyor
- Building contractor
- Project manager
- Construction manager
- Contracts administrator
- Estimator
- Facilities manager
- Property developer

**ENVIRONMENTAL ENGINEERING**
Research, design, plan, or perform engineering duties in the prevention, control, and remediation of environmental hazards using various engineering disciplines.

**POSSIBLE CAREERS:**
- Environmental Engineer
- Municipal Engineer
- Environmental Advisor

**HEALTH, SAFETY AND ENVIRONMENT**
Specialise in identifying and managing workplace risks to ensure a safe and healthy work environment.

**POSSIBLE CAREERS:**
- Health and safety educator
- Health and safety environment officer
- Health and safety officer
- Health and safety workplace inspector

**APPLIED GEOLOGY**
Geologists are concerned with how the Earth works, and the natural planetary processes and issues directly affecting people.

**POSSIBLE CAREERS:**
- Geologist
- Geological Engineer

**ELECTRICAL AND ELECTRONIC ENGINEERING**
Encompasses electrical power and control, electronic, telecommunication and computer systems.

**POSSIBLE CAREERS:**
- Electrical engineer
- Electronic engineer
- Network controller
- Communications engineer

**COMPUTING:**
Encompasses technologies, processes and practices designed to protect networks, computers, programmes and data from attack, damage or unauthorised access.

**POSSIBLE CAREERS:**
- Cyber security analyst
- Forensic computer analyst
- Software developer
- IT analyst
- Web application developer

**SOFTWARE ENGINEERING**
Application of a systematic, disciplined, and quantifiable approach to the development, operation and maintenance of software.

**POSSIBLE CAREERS:**
- Software engineer
- Software developer
- Games developer
- Analyst
- Algorithm designer
- Web applications developer

Detailed information is available online: engsci.curtin.edu.my
The Engineering First Year (EFY) programme prepares students to enter their second year in their chosen engineering discipline. EFY students learn mechanics, materials, electrical systems and mathematics which provide a strong fundamentals in order to design engineering solutions for the physical world. Engineering solutions also require a mathematical and logical mind.

Even the best engineering mind does not work in isolation. Now, more important than ever, engineers are expected to perform in teams and communicate with technical and non-technical people. In semester one and semester two of EFY, we put students into multi-cultural groups to design, build and present engineering solutions. These Problem Based Learning (PBL) approaches simulate the engineer’s working environment and better prepares students for their studies and the rigours of the working world.

One of the strengths of the EFY programme is students have the chance to change their course before entering second year. Many students enter the first year without a clear understanding of their chosen engineering discipline. With the EFY programme, students have one year to meet with senior students, academics and industry partners who can give a cleaner and accurate insight of the many engineering disciplines offered in Curtin Malaysia. The student can then make the right choice in his or her career.

Student engineers who complete the EFY have demonstrated competence in engineering knowledge, worked in teams and communicated engineering designs. They are ready and able to continue their second year studies and in a few years transition from student engineer to graduate engineer.

### EFY PROGRAMME STRUCTURE

<table>
<thead>
<tr>
<th>Year 1 Semester 1</th>
<th>Year 1 Semester 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Credit Hours</strong></td>
<td><strong>Credit Hours</strong></td>
</tr>
<tr>
<td>Engineering Mechanics</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Foundations – Principles and Communication</td>
<td>25</td>
</tr>
<tr>
<td>Calculus for Engineers</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Materials</td>
<td>25</td>
</tr>
<tr>
<td>Total Credit</td>
<td>100</td>
</tr>
<tr>
<td>Linear Algebra and Statistics for Engineers**</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Foundations – Design and Processes</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Programming</td>
<td>12.5</td>
</tr>
<tr>
<td>Select optional Units to the total value of : 12.5 credits</td>
<td></td>
</tr>
<tr>
<td>Introduction to Renewable Energy*</td>
<td>12.5</td>
</tr>
<tr>
<td>Evolution Development Successes and Failures of Engineering</td>
<td>12.5</td>
</tr>
<tr>
<td>Total Credit</td>
<td>100</td>
</tr>
</tbody>
</table>

*NOTE: All students intended to pursue Bachelor of Engineering (Chemical Engineering) are encouraged to enroll for ELEN1001 Introduction to Renewable Energy and priority for enrolment will be given to Chemical Engineering.

### WHY CHEMICAL ENGINEERING?

- Curtin Malaysia’s location in Miri, on the island of Borneo, and nearby the Sarawak Corridor of Renewable Energy (SCORE), provides ample opportunities for practical learning and exposure to realising practices.
- The course has extensive support and collaboration from industry players.
- Curtin Malaysia is the first institution in Malaysia to be awarded the Medallion for Excellence in Design Project (in 2006) by the Institution of Chemical Engineers (IChemE), UK.
- Curtin Malaysia’s Chemical Engineering students have emerged winners in a number of international and national competitions such as Honeywell UniSim Design Student Challenge and various engineering design competitions.

### CAREER OPPORTUNITIES

- Civil Engineer
- Site Engineer
- Structural Engineer
- Building contractor

### INDUSTRIES

- Construction
- Consulting
- Contracting
- Government
- Mining

### WHY CIVIL AND CONSTRUCTION ENGINEERING?

- The qualification offers a high level of job mobility.
- The course has extensive support and collaboration from industry players.

### CAREER OPPORTUNITIES

- Civil Engineer
- Design Engineer
- Site Engineer
- Structural Engineer
- Building contractor

### INDUSTRIES

- Construction
- Consulting
- Contracting
- Government
- Mining

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### CAREER OPPORTUNITIES

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- Design Engineer
- Site Engineer
- Structural Engineer
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### INDUSTRIES

- Construction
- Consulting
- Contracting
- Government
- Mining

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### CAREER OPPORTUNITIES

- Civil Engineer
- Design Engineer
- Site Engineer
- Structural Engineer
- Building contractor

### INDUSTRIES

- Construction
- Consulting
- Contracting
- Government
- Mining

### WHY CIVIL AND CONSTRUCTION ENGINEERING?

- The qualification offers a high level of job mobility.
- The course has extensive support and collaboration from industry players.
Electrical and Electronic Engineering

Bachelor of Engineering (Electrical and Electronic Engineering) (Honours) JPT/BPP(R/526/6/0054)10/20

Electrical and electronic engineering involves the applications of electrical energy, together with its generation, transmission and distribution, as well as the harnessing of renewable and sustainable energy.

4 Years full-time

PERTH, MALAYSIA

February, July Intake

CAREER OPPORTUNITIES
- AI systems engineer
- Electrical engineer
- Electrical power engineer
- Electronics engineer
- Embedded systems engineer
- Instrument engineer
- Power systems engineer
- Telecommunication engineer

INDUSTRIES
- Application engineering
- Computer hardware design
- Electronic systems
- Fibre optics and mobile communication
- Manufacturing
- Robotics
- Software development
- Renewable energy

WHY ELECTRICAL AND ELECTRONIC ENGINEERING?
- The course provides students with fundamental and state-of-art knowledge, relevant to industry with theory, computer simulation and practical components
- Excellent teaching staff, many with extensive industrial experience and strong collaboration with industry, present opportunities for exposure to industry practice and international institutes.

Environmental Engineering

Bachelor of Engineering (Environmental Engineering) (Honours) JPT/BPP(R/526/6/0144)11/23

Within the broad scope of environmental engineering in Malaysia, areas earmarked for growth include water treatment, solid waste management (including industrial and hazardous waste management), and domestic and industrial waste water treatment.

4 Years full-time

MALAYSIA

July Intake

CAREER OPPORTUNITIES
- Resident Engineer
- Public Health Engineer
- Site Remediation Engineer
- Landfill Engineer
- Water Supply / Resources Engineer
- Pollution Control Engineer
- Sustainable Development Executive
- Environmental Technical Contractor
- Sales Engineer
- Environmental Entrepreneur

WHY ENVIRONMENTAL ENGINEERING?
- Our degree will equip you with a broad knowledge of multiple engineering fields such as Chemical and Civil & Construction engineering in order to provide you with an innovative and creative engineering experience.
- Curtin’s bachelor of Environmental Engineering course is a good balance of theoretical background and practical experience throughout the four years of study.
- You will experience great employment prospects as the demand for environmental engineers is growing rapidly in both the domestic and international market.

Petroleum Engineering

Bachelor of Engineering (Petroleum Engineering) (Honours) JPT/BPP(R/524/6/0065) 10/21

Upstream petroleum engineers are always in demand. Currently, reservoirs produce only about 30 per cent of their oil, so petroleum engineers are needed to develop methods to increase oil and gas production. Petroleum Engineering involves the production of oil and gas (hydrocarbons) from sub surface reservoirs which requires engineering to bring it to the surface, estimate its value and extract it, in other words, finding oil and gas, drilling and producing it.

4 Years full-time

PERTH, MALAYSIA

February, July Intake

CAREER OPPORTUNITIES
- Petroleum engineer
- Drilling engineer
- Field operation engineer
- Production engineer
- Reservoir engineer
- Subsurface engineer
- Well completions engineer

INDUSTRIES
- Environmental management
- Government
- Health and safety
- Oil and gas
- Research and development
- Water treatment

WHY PETROLEUM ENGINEERING?
- Saturdays are accompanied by practical study in fluid and reservoir rock laboratories, geodynamic test work, and field trips to both service company offices and drilling sites.
- Graduates are immediately employable in the industry, upon graduation. In fact, most of our students find employment before graduation.
- Excellent teaching staff, many with extensive industrial experience and strong links with national and international industries.
- Petroleum engineers are amongst the best paid professionals in the world.
- Petroleum engineers are amongst the best travelled professionals in the world.

Mechanical Engineering

Bachelor of Engineering (Mechanical Engineering) (Honours) JPT/BPP(R/526/6/0054)10/20

Mechanical Engineering addresses the analysis and development of technological systems involving motion, and permits humanity to harness the energy and forces that exist in nature, providing for the needs of society.

4 Years full-time

PERTH, MALAYSIA

February, July Intake

CAREER OPPORTUNITIES
- Mechanical engineer
- Aeronautical engineer
- Mechatronic engineer

INDUSTRIES
- Aerospace and automotive
- Manufacturing
- Marine engineering
- Mining
- Mineral and material processing
- Plant operation and maintenance
- Power generation
- Robotics
- System design
- Transport
- Water supply

WHY MECHANICAL ENGINEERING?
- The course is highly directed towards developing fundamental knowledge and a generic skill set necessary for a wide range of career opportunities in the engineering industry, management, and research and development.
- The course has a well-maintained balance between theoretical skills and practical experience with up-to-date facilities for demonstrating concepts and their applications.
- Instruction is by highly qualified, enthusiastic, and caring teaching staff with both international academic experience and industry exposure.
- Faculty’s strong collaboration with industry provides presents opportunities for exposure to industry practice.
BACHELOR OF APPLIED SCIENCE (HONS)

Construction Management
Bachelor of Applied Science (Construction Management) (Honours) JPT/BPPN/526/6/0137 05/23

The Construction Management degree prepares you for a wide range of professional roles in the building and construction industry. This course is management-oriented and focuses on a broad range of interrelated disciplines including technical, commercial and civil construction. You will be taught by a dedicated team of professionals with qualifications and experience in construction-related disciplines.

CAREER OPPORTUNITIES
- Construction management
- Contract administrator
- Project manager
- Building technician
- Property developer
- Building surveyor

INDUSTRIES
- Building and construction
- Local government
- Infrastructure

CAREER OPPORTUNITIES
- Building contractor
- Estimator
- Quantity surveyor

February, July Intake

4 Years full-time

PERTH, MALAYSIA

BACHELOR OF SCIENCE (HONS)

Applied Geology
Bachelor of Science (Applied Geology) (Honours) JPT/BPPR/433/6/0003 10/20

In this 4 year course, you will combine a thorough grounding in theoretical and practical Geology with technical and commercial skills. The first year gives you a basic foundation in Chemistry, Physics, Maths, Scientific communication and computer skills, and an Introductory to Geology. The second year focuses on the theoretical, laboratory and field skills required to understand geological processes. The third year provides comprehensive coverage of all applied disciplines of geology, including Basin Analysis and Petroleum Systems, Formation Evaluation, Petroleum Engineering and Sustainable development and Tectonics and Dynamic Earth. The final year (Honours) focuses on an independent dissertation and includes courses on Geoscientific Professional Practice and Petroleum Engineering.

CAREER OPPORTUNITIES
- Environmental geology
- Groundwater extraction
- Mineral and petroleum exploration
- Mining
- Natural hazards and risk analysis
- Radioactive waste storage
- Research and development

INDUSTRIES
- Geologist
- Geological engineer

February, July Intake

4 Years full-time

PERTH, MALAYSIA

WHY APPLIED GEOLOGY?

- The research project develops a student’s core research skills including experimental/theoretical/field-based studies, data collection and analysis, critical scientific analysis and reporting. The completion of the project demonstrates to potential employers an ability to work on one’s own, and plan and carry out a complex body of work within defined deadlines.
- Opportunity for publication of your research in peer reviewed journals and books.
- Opportunity for international research collaboration.

BACHELOR OF SCIENCE

Cyber Security
Bachelor of Science (Computing) Cyber Security JPT/BPPR/448/6/0105 05/23

Cyber Security encompasses technologies, processes and practices designed to protect networks, computers, programmes and data from attack, damage or unauthorised access.

CAREER OPPORTUNITIES
- Cyber security analyst
- Forensic computer analyst
- Software developer
- IT analyst
- Web application developer

INDUSTRIES
- Applications development
- Cyber security
- Game design and development
- IT analysis
- Software development

February, July Intake

3 Years full-time

PERTH, MALAYSIA

Software Engineering
Bachelor of Science (Computing) Software Engineering JPT/BPPR/481/6/0805 05/23

Software Engineering is the application of a systematic, disciplined, and quantifiable approach to the development, operation and maintenance of software.

CAREER OPPORTUNITIES
- Software engineer
- Software developer
- Games developer
- Analyst
- Algorithm designer
- Web applications developer

INDUSTRIES
- Applications development
- Cyber security
- Game design and development
- IT analysis
- Software development

February, July Intake

3 Years full-time

PERTH, MALAYSIA

Health, Safety and Environment
Bachelor of Science (Health, Safety and Environment) JPT/BPPN/862/6/0100 11/24

Health, Safety and Environment prepares you for a diverse career in expanding areas of occupational health and safety. It helps to identify and manage workplace risks to ensure a safe and healthy environment. Health, Safety and Environment degree will develop professional skills in critical thinking, information literacy and technology.

CAREER OPPORTUNITIES
- Health and safety educator
- Health and safety environment officer
- Health and safety officer
- Health and safety workplace inspector

INDUSTRIES
- Engineering and construction
- Industrial services
- Local and state government
- Manufacturing
- Professional services
- Research and education
- Resources and energy
- Retail
- Transport
- Occupational Health and Safety Officer

February, July Intake

3 Years full-time

PERTH, MALAYSIA
BACHELOR OF TECHNOLOGY

Computer Systems and Networking
Bachelor of Technology (Computer Systems and Networking) PTP/BN/61/4(81)/6/0687 15/20

There is currently a significant market demand for skills associated with the design of distributed computing environments and the networks that underpin them. Computer Systems and Networking is part of the technological field that requires the application of scientific and engineering knowledge and methods combined with technical skills in support of computer technology, both hardware and software, as well as computer communications and networking incorporating Local Area Networks (LANs), Metropolitan Area Networks (MANs) and Wide Area Networks (WANs) together with network management (CISCO certification).

CAREER OPPORTUNITIES
- Industrial network engineer
- IT professional
- Network and system administrator
- Systems designer
- Telecommunications manager

INDUSTRIES
- Finance and insurance
- Government
- Mining and production
- Operational technology
- Public administration and safety

WHY COMPUTER SYSTEMS AND NETWORKING?
- Computer Systems and Networking graduates are highly sought after both nationally and internationally.
- The course offers a carefully designed curriculum to students to learn various CISCO components.
- Course offers industry-based skills and experience.
- Curtin Malaysia is the only Cisco certified provider in East Malaysia, allowing students to obtain Cisco Certified Network Associate and other CISCO qualifications.

4 Years full-time
PERTH, MALAYSIA
February, July Intake

HOW TO APPLY

To Apply
1. Complete the online Application Form at futurestudents.curtin.edu.my/enquiry/
2. Printed Application Forms must be accompanied by certified copies of relevant documents.
3. Successful applicants will receive an Offer Pack which will include a Letter of Offer, Acceptance of Offer Form, Enrolment Form and Student Pass Application Pack.

Before leaving home
1. It is advisable to book an air ticket immediately after receiving Single Entry Visa (for international students only) or after accepting the offer (for domestic students only) as airline seats are in high demand before the start of each semester.
2. Wherever possible, arrange your itinerary to transit at Kuala Lumpur International Airport (KLIA), which is the main entry point to Malaysia, then travel to Miri within the same day.
3. Make arrangements for accommodation. To book campus accommodation, log on to accommodation.curtin.edu.my
4. To request the Airport Reception Service on arrival, you will need to complete the Airport Reception Service (ARS) Booking Form which is available at airport-reception-service/ars-booking-form/
ARS requests must be submitted 3 working days in advance.
5. To ensure smooth immigration clearance at KLIA and Miri Airport, you will need to produce your passport, Letter of Offer from Curtin Malaysia, and Visa Approval Letter (VAL) from the Sarawak Immigration Department.

On arrival in Miri
1. If you have requested the Airport Reception Service, you will be met at Miri Airport and transported to your campus accommodation or short-term accommodation.
2. You are required to report to the Curtin Malaysia International Office during office hours, and will be assisted to open a bank account and make an appointment for medical check-up.
3. The University conducts an orientation programme to assist students to settle in Miri and into the University environment. It includes information on enrolment procedures, study skills, campus facilities, support services, public transport, shopping and recreational activities.

The programme is supported by specialist staff members, student associations and senior students. All new students are required to attend.
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For further information, contact:
Curtin University Malaysia
CDT250, 98009 Miri,
Sarawak, Malaysia.
Tel: +60 85 630 100 (General line)
+60 85 630 000 (Student enquiries)
Fax: +60 85 630 088
Email: enquiries@curtin.edu.my

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