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.

We have a common first year for all engineering students, which builds their range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics. Before graduating from any Bachelor of Engineering course, students are required to obtain 12 weeks engineering work experience and a senior first aid certificate.

Honours are awarded to graduates based upon their performance.

Ranked in the top one per cent of universities worldwide
(QS World University Rankings by Subject 2019)

Top 1%
(Ranked in the top one per cent of universities worldwide
(Academic Ranking of World Universities 2019)

Top 100
Top 100 in the world for Civil and Structural Engineering
(QS World University Rankings by Subject 2019)
**FOUNDATION STUDIES**

**ENGINEERING AND SCIENCE STREAM**

MoHe Course Code: R/010/3/0344

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)
- 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

**For International Students**

<table>
<thead>
<tr>
<th>Country</th>
<th>Qualification and Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bangladesh</td>
<td>Completion of Bangladesh Secondary School Certificate (SSC) with a minimum Grade Point average of 3.5 (60-69%), separate evidence or English competency is required or GCE ‘O’ Level - credit in 4 relevant academic subjects and English competence.</td>
</tr>
<tr>
<td>Brunei</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>China</td>
<td>Completion of Senior Middle 3 with an overall average grade of least 60% and English competence.</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>HKDSE - Grade D in 5 subjects and English competence.</td>
</tr>
<tr>
<td>India</td>
<td>Completion of All India Secondary School Certificate awarded by Central Board of Secondary Education with an average of 60% in four subjects, any of which must be English (60% or better) or with separate evidence of competence in English or GCE ‘O’ Level - credit in 4 relevant academic subjects and English competence.</td>
</tr>
<tr>
<td>Indonesia</td>
<td>Successful completion of Ijazah Sekolah Menengah Atas (SMA) (Certificate of Completion from Academic Senior Secondary School) with an overall average grade of at least 7.0 and at least an overall grade of 7.0 from the Surat Keterangan Hasil Ujian Nasional (SKHUN) (Certificate of Graduation) with separate evidence of English required.</td>
</tr>
<tr>
<td>Mauritius</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>Myanmar</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence or Basic Education High School Examination (also known as Matriculation Examination) with average 55% and separate evidence of competence in English.</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Completion of Secondary School Certificate awarded by Federal Board of Intermediate and Secondary Education with average of 60% in 4 academic subjects, and at least 60% in English or GCE ‘O’ Level - credit in 5 academic subjects and English competence.</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>Singapore</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>GCE ‘O’ Level - credit in 5 relevant subjects and English competence.</td>
</tr>
<tr>
<td>Vietnam</td>
<td>Successful completion of the Vietnamese High School Graduation Diploma with at least final GPA of 7.5 out of 10 in Grade 12 school report from one of the approved gifted high schools in meeting minimum Undergraduate academic entry criteria. Separate evidence of English competence is required.</td>
</tr>
</tbody>
</table>

**For Malaysian Students**

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM</td>
<td>5 Credits including English and Mathematics and 2 passes in Add. Mathematics and Physics or Chemistry or Biology.</td>
</tr>
<tr>
<td>GCE ‘O’ Level</td>
<td>SC including English or SC and English competence.</td>
</tr>
<tr>
<td>UEC</td>
<td>Grade B in four relevant academic subjects and English competence.</td>
</tr>
</tbody>
</table>
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 Coursework</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 6.5 (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>PTE Academic**</td>
<td>65 (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>70 (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>SPM English**</td>
<td>B</td>
<td>C</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SPM 1119 English**</td>
<td>C</td>
<td>C</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>GCE 'O' Level</td>
<td>E</td>
<td>E</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>GCE 'O' Level**</td>
<td>C</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
<tr>
<td>PTE Academic (Pearson Test of English Academic)**</td>
<td>Overall 62</td>
<td>Overall 50 All Communicative Skills 50</td>
<td>Overall 50 All Communicative Skills 50</td>
<td>Overall 50 All Communicative Skills 50</td>
</tr>
<tr>
<td></td>
<td>Overall 58 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
<td>Overall 58 All Communicative Skills 50</td>
</tr>
</tbody>
</table>

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

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 IELTS 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, III and IV 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.

### Intensive English Programme

#### Level I

**Entry requirements equivalent to IELTS band 3.0**

- **Exit Test:** Internal

#### Level II

**Entry requirements equivalent to IELTS band 3.0**

- **Exit Test:** Internal

#### Level III

**Entry requirements equivalent to IELTS band 4.0**

- **Exit Test:** Internal

#### Level IV

**Entry requirements equivalent to IELTS band 4.5**

- **Exit Test:** IELTS

### Alternative Entry Pathways

Besides the Intensive English Programme, the Department of Culture 6 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.

---

*The English Entry requirement for Degree courses is IELTS band 6.5.*
UNDERGRADUATE STUDIES AND ENTRY REQUIREMENT

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 experiences.

Admission

For admission to Curtin Malaysia, applicants must satisfy minimum academic entry as well as English language requirements. Each course 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 English language requirements. 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 Science
Applied Geology - Mathematics.
Computing - Mathematics. Calculus is desirable.

Bachelor of Technology (Computer Systems and Networking)
Mathematics.

For International Students

Country Qualityification and Minimum Entry Requirements

Brunei

Three passes (Grade C or better) in the Brunei Cambridge General Certificate of Education Ordinary Level Exam (GCE) and two passes (minimum 5 points) in the Brunei Cambridge General Certificate of Education Advanced Level Exam (GCE). Separate evidence of English competency is required.

China

Successful completion of the National College Entrance Examination (NCEE) (also known as Gao Kao) and obtain an aggregate of the required individual subjects which is equivalent to 67% of the overall maximum score, or a grade of 32/48, 40/60, 50/75, 54/810 or 60/990 AND English and Mathematics competency OR completion of one year of a bachelor degree at a recognised university and English competency.

Hong Kong

Completion of the Hong Kong Diploma of Secondary Education (HKDSE) with a point score of 15 from the best five subjects with at least a grade of 4 in English language or separate evidence of English ability.

India

All India Senior School Certificates awarded by the Central Board of Secondary Education with an average of 65% in four subjects, one of which must be English (with 65% or better) or separate evidence of English competency or Indian School Certificate (Council for the Indian School Certificate Examinations) with an average of 65% in five subjects, one of which must be English (with 65% or better) or separate evidence of English competency. Refer to course fees list for discounting for cut off scores.

Note: Students from countries not listed above should contact Curtin Malaysia for further details.

For Malaysian Students

Country Qualification and Minimum Entry Requirements

Malaysia

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 full English Entry Requirement. Points calculated as follows:

A=5, B=4, C=3, D=2, E=1

OR

A minimum of 5 points obtained from two or three Advanced Level subjects. OR three Advanced Level subjects and a maximum of two Advanced Subsidiary Levels (AS) are required and full English Entry Requirement. Points calculated as follows:

Grades awarded from 2010 onwards:

A=5, B=4, C=3, D=2, E=1

Grades awarded up to 2009:

A* = 5, A=4, B=3, C=2, D=1

AS Levels equal half of that of an Advanced Level, e.g. 3 points for an A at 2.5 points for an A (prior to 2010).

OR

Completion of the Malaysian Unified Examination Certificate (UCE)/Senior Middle Level with 15 points aggregated from the best five academic subjects and full English Entry Requirement. Points calculated as follows:

A1 = 8, A2 = 7, B3 = 6, B4 = 5, B5 = 4, C7 = 3, C8 = 0

Japan

Successful completion of one year full-time study of a four year Bachelor degree at a recognised institution, separate evidence of English competency is required.

Kenya

Successful completion of the first year of a bachelor degree at a recognised institution and English competency.

Mauritius

Three 'Ordinary' level passes (minimum grade C) in the Cambridge School Certificate (CSEC) GCE 'O' level and two 'Advanced' Level passes (minimum of 5 points) in the Cambridge Higher School Certificate (CHSC) GCE 'A' Level, and a grade C or better in 'O' level English. English Literacy of English Language OR with separate evidence of English competency.

Myanmar

Successful completion of two years full-time study of a three years Bachelor degree in arts, economics, commerce and management, foreign languages, and science (including computer science) or successful completion of one year full-time study of a four years Bachelor degree in community health, education, law, nursing, paramedical sciences, pharmacy, technology (including computer technology and teaching technology) at a Section 1 Higher education institution listed on All CSEP; separate evidence of English competency is required.

Nepal

Completion of one year full-time study of a four years Bachelor degree at a recognised higher education institution, separate evidence of English competency is required.

Oman

Successful completion of one year full-time study of a four years Bachelor degree at a Section 1 Higher Education OR with at least a grade 3.00 (or 75% or B) at a Section 2 Higher Education Institution listed on All CSEP; separate evidence of English competency is required.

Pakistan

Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (770 out of 1100), separate English competency is required. This qualification does not satisfy subject prerequisites.

Russia

Successful completion of one year of four years full-time Bakhadov at a State institution or fully accredited private institution - separate evidence of English competency is required.

Saudi Arabia

Successful completion of the first year of a four year full-time Bachelor degree at one of the Section 1 Higher Education with at least a grade of 'very good' or 'excellent' at one of the Section 2 Higher Education institutions listed on All CSEP, separate evidence of English competency is required.

South Korea

Completion of High School Diploma with a score of 300 (75%) in the National University Entrance Examination (College Scholastic Ability Test) (CSAT) - separate evidence of English competency is required.

Sri Lanka

Three ‘Ordinary/’ level passes (min. grades of C) and two ‘Advanced’ level passes (min. grades of C) in the Sri Lankan General Certificate of Education, and with C in General English or with separate evidence of English competency.

Thailand

Successful completion of one year full-time study of a four years Bachelor degree at one of the Section 1 Higher Education institutions listed on All CSEP; separate evidence of English competency is required.

United Arab Emirates

Successful completion of one year full-time study of a four years Bachelor degree at one of the Section 1 Higher Education institutions listed on All CSEP; OR Successful completion of one year full-time study of a four years Bachelor degree with at least Grade of 3.00 out of 4.00 at one of the Section 2 Higher Education institutions listed on All CSEP AND separate evidence of English competency is required.

United Kingdom

Three GCE O-level/GCSE passes and two GCE Advanced level passes (minimum 5 points: A=5, B=4, C=3, D=2, E=1). You must have Grade C or better in GCE O Level/GCSE English, English literature or English language, or provide separate evidence of English competency.

USA

From 2016 – An United States High School Diploma or a High School Diploma based on a US curriculum with an average grade of B or better in year 12 and a combined score of at least 1090/1600 in the Evidence Based Reading and Writing and Math in the SAT Reasoning Test, with a minimum of 950 Evidence Based Reading and Writing and 550 in Mathematics on the SAT or United States High School Diploma or a High School Diploma based on a US curriculum with an average grade of B or better in year 12 and a composite score of 24 or better in the American College Test (ACT).

Vietnam

Successful completion of the Vietnamese High School Graduation Diploma with at least GPA of 7.0 out of 10 in Grade 12 school report from one of the approved gifted high schools in meeting minimum Undergraduate academic entry criteria. Separate evidence of English competency is required.

Zimbabwe

Completion of the Zimbabwe Certificate of Secondary Education - Advanced Level conducted by ZIMSEC with at least two Advanced Level subjects passed at Principal level (Subsidiary pass is not acceptable) and achieved the required national Australian Tertiary Admission Rank (ATAR) using the GCE A-level Conversion AND a Grade C or better in English subject in Zimbabwe Certificate of Secondary Education at Ordinary Level.
**INDICATIVE CUT-OFF SCORES**

<table>
<thead>
<tr>
<th>Course Name</th>
<th>GCE A Level/STPM (Best of 3 subjects)</th>
<th>UEC (Best of 5 subjects)</th>
<th>HKDSE</th>
<th>IB</th>
<th>Omsys-GRT 12 (Best of 8)</th>
<th>ATAR (Act Mat/HSC/UGC/VT)</th>
<th>WACEP (OPS)</th>
<th>India/Pakistan</th>
<th>Sri Lanka</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Geology (BSc)</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>80</td>
<td>70</td>
<td>80</td>
<td>70</td>
<td>70</td>
<td>76%</td>
</tr>
<tr>
<td>Chemical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>10</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>50</td>
<td>76%</td>
<td>9</td>
</tr>
<tr>
<td>Civil and Construction Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>16</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>50</td>
<td>76%</td>
<td>9</td>
</tr>
<tr>
<td>Computer Systems &amp; Networking (BEng)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65%</td>
<td>5</td>
</tr>
<tr>
<td>Computing (BSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65%</td>
<td>5</td>
</tr>
<tr>
<td>Construction Management (BAppsSc)</td>
<td>5</td>
<td>15</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
<td>53</td>
<td>65%</td>
<td>5</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>
<td>80</td>
<td>59</td>
<td>76%</td>
<td>9</td>
</tr>
<tr>
<td>Environmental Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>76%</td>
<td>9</td>
</tr>
<tr>
<td>Mechanical Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>76%</td>
<td>9</td>
</tr>
<tr>
<td>Petroleum Engineering (BEng)</td>
<td>8</td>
<td>22</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
<td>59</td>
<td>76%</td>
<td>9</td>
</tr>
</tbody>
</table>

Cut-off scores key:
- **GCE** : General Certificate of Education
- **STPM** : Sijil Tinggi Persekolahan Malaysia
- **IB** : International Baccalaureate
- **ATAR** : Australian Tertiary Admission Rank – applicable to all Australian universities
- **HKDSE** : Hong Kong Diploma of Secondary Education
- **Indi** : Includes All India Senior School Certificate awarded by The Central Board of Secondary School 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

Subject Grades Conversion for STPM:
- A* = 5, A = 4, B + = 3, B = 2, C + = 2, C = 1
- The following UEC subjects are included in the aggregate of best five subjects:
  - Mathematics
  - Advance Mathematics I
  - Advance Mathematics II
  - Biology
  - Chemistry
  - Physics
  - Business Studies
  - Bookkeeping and Accounts
  - Accounting
  - Economics
  - History
  - Geography
  - Computing and Information Technology
- UEC Points Aggregate Grades Conversion:
  - A1 = 8, A2 = 7, B3 = 6, B4 = 5, B5 = 4, B6 = 3, C7 = 0, C8 = 0, F9 = 0

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

**THE CURTIN EXPERIENCE**

Study at Curtin’s largest international campus. Learn through practical experience. Become part of a multicultural environment. Prepare to succeed in a competitive professional market.

**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 (JPA), 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.
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
- Metallurgical Engineer
- Process Safety Engineer
- Research & Development Engineer

**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

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

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

**MECHANICAL 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

**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

**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 technician
- 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

**APPLICATIONS**
- 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

**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

**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

**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
Welcome to Curtin University. Over 1000 FREE parking spaces across the campus.
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 clearer and accurate sense 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 multi-cultural groups to design, build and present engineering solutions. 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>Credit Hours</th>
</tr>
</thead>
<tbody>
<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>Linear Algebra and Statistics for Engineers**</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Programming</td>
<td>25</td>
</tr>
<tr>
<td>Total Credit</td>
<td>100</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Year 1 Semester 2</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Systems</td>
<td>25</td>
</tr>
<tr>
<td>Linear Algebra and Statistics for Engineers**</td>
<td>25</td>
</tr>
<tr>
<td>Engineering Foundations – Design and Processes</td>
<td>12.5</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>12.5</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 enrol for ELEN1001 Introduction to Renewable Energy and priority for enrolment are given to Chemical Engineering.

### WHY CHEMICAL ENGINEERING?

- Curtin Malaysia is the first institution in Malaysia to be awarded the Malaysia’s first institution in Malaysia to be awarded the MacNab Medal for Excellence in Design Project (2006) by the Institution of Chemical Engineers (IChemE), UK.
- Curtin Malaysia Chemical Engineering students have emerged winners in a number of international and national competitions such as Honeywell UniSim Design Student Challenge for Europe (2015) and Asia Pacific (2014), Honours Mention Award in Crown Prince OPTA (2015), and 3rd Institution of Engineers Malaysia (IEM) Chemical Engineering Design Competition (2014/2015).
- 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.

### CAREER OPPORTUNITIES

- Chemical engineer
- Process engineer
- Production/operations engineer
- Risk and safety manager
- Process/chemical engineer
- Bioprocess engineer
- Mechanical engineer
- Aerospace engineer
- Water and wastewater engineer
- Conservation engineer
- Mining engineer
- Energy engineer
- Chemical engineer
- Production/operations engineer
- Risk and safety manager
- Process/chemical engineer
- Bioprocess engineer
- Mechanical engineer
- Aerospace engineer
- Water and wastewater engineer
- Conservation engineer
- Mining engineer
- Energy engineer

### BACHELOR OF ENGINEERING (HONOURS)

#### Chemical Engineering

**Bachelor of Engineering (Chemical Engineering) (Honours)** JPT/BPP(R/524/6/0053) 10/20

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

Chemical Engineering covers the development, design and operation of chemical processes and plants for the extraction, conversion and recovery of materials that is based on both chemical and biological systems.

#### CAREER OPPORTUNITIES

- Oil, gas and petrochemical
- Bioengineering and biotechnology
- Aerospace and automotive
- Agrochemical
- Food processing
- Mineral and material processing
- Pharmaceutical
- Semiconductor
- Water and wastewater treatment

#### WHY CHEMICAL ENGINEERING?

- The qualification offers a high level of job mobility.
- The course has extensive support and collaboration from industry players.
- This professional and practically-orientated course is highly prized by graduates and respected by professional engineers.
- The course is a comprehensive combination of civil engineering and construction engineering.

#### Civil and Construction Engineering

**Bachelor of Engineering (Civil and Construction Engineering) (Honours)** JPT/BPP(R/526/6/0107) 10/20

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

Civil Engineering involves the application of basic scientific and technological principles to the design and construction of facilities necessary for the welfare of the community.

#### CAREER OPPORTUNITIES

- Civil Engineer
- Site Engineer
- Structural Engineer
- Building contractor
- Contractor
- Government
- Mining
- Consulting
- Contracting
- Construction
- Government
- Mining
- Consulting
- Contracting
- Construction

#### WHY CIVIL AND CONSTRUCTION ENGINEERING?

- The qualification offers a high level of job mobility.
- The course has extensive support and collaboration from industry players.
**Bachelor of Engineering (Honours)**

**Electrical and Electronic Engineering**

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

**INDUSTRIES**
- Application engineering
- Computer hardware design
- Electronic systems
- Fibre optics and mobile communication
- Manufacturing
- Robotics
- Software development
- Solar and 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 players present opportunities for exposure to industry practice and international institutes.

**CAREER OPPORTUNITIES**
- Aeronautical engineer
- Mechanical engineer
- Electronics engineer
- Embedded systems engineer
- Medical systems engineer
- Network controller
- Power systems engineer
- Systems engineer

**Mechanical Engineering**

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

**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 skills base 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/players presents opportunities for exposure to industry practice.

**CAREER OPPORTUNITIES**
- Building contractor
- Estimator
- Quantity surveyor

**Construction Management**

**Oil and gas**
- Petroleum engineer
- Drilling engineer
- Field operation engineer
- Production engineer
- Reservoir engineer
- Subsurface engineer
- Well completions engineer

**WHY PETROLEUM ENGINEERING?**
- Lectures are accompanied by practical exercises in field and reservoir risk laboratories, geophysical lab 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 institutes.
- Petroleum engineers are amongst the best travelled professionals in the world.

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

**BACHELOR OF APPLIED SCIENCE (HONS)**

**Construction Management**

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 domestic, commercial and civil construction. You will be taught by a dedicated team of professionals with qualifications and experience in construction-related disciplines.

**INDUSTRIES**
- Building and construction
- Local government
- Infrastructure

**CAREER OPPORTUNITIES**
- Building contracter
- Estimator
- Quantity surveyor
BACHELOR OF SCIENCE (HONS)

Applied Geology
Bachelor of Science (Applied Geology) (Hons)
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 Geoscience Professional Practice and Petroleum Engineering.

CAREER OPPORTUNITIES
- Geologist
- Geological engineer

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, initiation 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 (COMPUTING)

Cyber Security
Bachelor of Science (Computing) Cyber Security
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
- Cyber security
- IT analysis
- Software development

BACHELOR OF TECHNOLOGY

Computer Systems and Networking
Bachelor of Technology (Computer Systems and Networking)
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
- Professional, scientific and technical services
- 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.
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.

To accept the offer, complete and sign all the forms and return them with payment of all fees to Curtin Malaysia by the due date stated in the offer letter in order for the student pass and visa application to be processed.

4. The Student Pass Application pack includes (international students only):
   • Student Pass Application Form
     Im. 14 Pin. 1/93
     (1 copy, in the Malay Language)
   • Visa Application Form
     Im. 38 Pin. 1/93
     (1 copy, in the Malay Language)
   • Foreign Student Particulars
     (3 copies, in the Malay Language)
   • English translation of the above forms
   • Student Pass Application Policy and Procedures
   • Curtin Medical Form

5. The student pass application process would usually take ONE month. Upon approval, a Visa Approval Letter (VAL) from the Sarawak Immigration Department will be forwarded to you via courier.

You are then required to present the following documents to the Malaysian Embassy for ‘Single Entry Visa’ endorsement:
   • Passport
   • Letter of Offer
   • Visa Approval Letter (VAL) from 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.

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 (KUL), 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 international.curtin.edu.my/the-international-division/airport-reception-service/

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, at the airport immigration counters.
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