ENGINEERING AND SCIENCE

Make tomorrow better.

engsci.curtin.edu.my
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.
Foundation Studies - Engineering and Science Stream
MoHe Course Code: R/010/3/0344

For International Students

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.

Table: Foundation in Engineering & Science and Entry Requirements

<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 at 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, one of which must be English (60% or better) or with separate evidence of competence in English or GCE 'O' Level - credit in 5 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.</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 50% in English or GCE 'O' Level - credit in 5 relevant 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>
</tbody>
</table>

For Malaysian Students

Table: Qualification and Minimum Entry Requirements

<table>
<thead>
<tr>
<th>Qualification</th>
<th>Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engineering Stream</td>
<td></td>
</tr>
<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>
<tr>
<td>Science Stream</td>
<td></td>
</tr>
<tr>
<td>SPM</td>
<td>5 Credits including English and Mathematics, and a pass in any (1) of the Science subjects</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.

ENGLISH QUALIFICATION

<table>
<thead>
<tr>
<th>SCORE</th>
<th>Foundation</th>
<th>Undergraduate</th>
<th>Postgraduate By Discipline</th>
<th>Postgraduate By Research</th>
<th>IELTS</th>
<th>SPM English</th>
<th>GCE ‘O’ Level</th>
<th>GCE ‘O’ Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>T</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>
<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>
<td>Overall 6.5 (no individual band below 6.0)</td>
</tr>
<tr>
<td>T</td>
<td>Engineering &amp; Design/ Engineering/ Arts/ Accounting/ Economics/ IT</td>
<td>Engineering</td>
<td>Science</td>
<td>Science</td>
<td>Engineering</td>
<td>Science</td>
<td>Science</td>
<td>Science</td>
</tr>
<tr>
<td>T</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
<td>Test of English as a Foreign Language (TOEFL)</td>
</tr>
<tr>
<td>T</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

IELTS

SPM English

GCE ‘O’ Level

GCE ‘O’ Level

PTE Academic (Pearson Test of English Academic)

| T | Overall I | Overall II | Overall III | Overall IV |
| T | Placement Test: Internal | IELTS band 4.5 | IELTS band 5.5 | IELTS band 6.5 |
| T | Level I | Level II | Level III | Level IV |
| T | Exit Test: IELTS | Exit Test: IELTS | Exit Test: IELTS | Exit Test: IELTS |

The 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 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 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.

Alternative Entry Pathways

Besides the Intensive English Programme, the Department of Culture & 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 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 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.
## Undergraduate Studies and Entry Requirements

### 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 programme. A year of honours study consists of coursework at an advanced level and research or project work. Curtin’s 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 experiences 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.

### For International Students

#### 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 Foundational Studies - Computing 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 language requirement.

Any one of 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.


### Country Qualification and Minimum Entry Requirements

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<table>
<thead>
<tr>
<th>Country</th>
<th>Qualification and Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brunei</td>
<td>Three passes (Grade C or better) in the Brunei Cambridge General Certificate of Education (Ordinary Level Examination) (GCE) and two passes (minimum of 5 points) in the Brunei Cambridge General Certificate of Education-Advanced Level Examination (GCE). Separate evidence of English competency is required.</td>
</tr>
<tr>
<td>China</td>
<td>Successful completion of the National College Entrance Examination (NCEE) (also known as Gaokao) and obtain an aggregate of the required individual subjects which is equivalent to 57% of the overall maximum score, or a grade of A/4 (see 4.0) and grade point average of 5.0 in the last four years' performance. Separate evidence of English proficiency is required.</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>Completion of the Hong Kong Diploma of Secondary Education (HKDSE) with a score of 15 from the best five subjects with at least a grade of 4 in English language or with separate evidence of English.</td>
</tr>
<tr>
<td>India</td>
<td>All India School Certificate 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 English competency. English will be awarded with an average of 65% in five subjects, one of which must be English (with 65% or better) or separate evidence of English proficiency. Refer to course fees listings for cut off scores.</td>
</tr>
<tr>
<td>Japan</td>
<td>Successful completion of one year full-time study of a four year Bachelor degree at a recognized institution, separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Kenya</td>
<td>Successful completion of the first year of a bachelor degree at a recognized institution and English proficiency.</td>
</tr>
<tr>
<td>Mauritius</td>
<td>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 (CHS) GCE ‘A’ level; and a grade C or better in ‘O’ level English, English Literature of English Language OR with separate evidence of English competency.</td>
</tr>
<tr>
<td>Myanmar</td>
<td>Successful completion of one year full-time study of a four-year bachelor degree or two years of a four-year honours degree at a recognized institution and English competency.</td>
</tr>
<tr>
<td>Nepal</td>
<td>Completion of one year full-time study of a four years Bachelor, or two years full-time study of a three years Bachelor from an institution or an equivalent education institution, separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Oman</td>
<td>Successful completion of one year full-time study at a four year Bachelor degree at a Section 1 Higher Education OR with at least a grade 3.0 (or 75% or B) or at a Section 2 Higher Education Institution listed on AIEP CEP institution listed on AIEP CEP, separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Pakistan</td>
<td>Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (170 out of 1100), separate English competency is required. This qualification does not satisfy subject prerequisites.</td>
</tr>
<tr>
<td>Russia</td>
<td>Successful completion of one year of a four years full-time Bachelor at a State institution or fully accredited private institution – separate evidence of English competence is required.</td>
</tr>
<tr>
<td>Saudi Arabia</td>
<td>Successful completion of the first year of a four year full-time Bachelor degree at one of the Section 1 Higher Education OR with at least a grade of ‘very good’ or ‘excellent’ or at one of the Section 2 Higher Education Institutions listed on AIEP CEP separate evidence of English competency is required.</td>
</tr>
<tr>
<td>South Korea</td>
<td>Completion of High School Diploma with a score of 300 (75%) in the National University Entrance Examination (College Scholastic Ability Test) - separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Sri Lanka</td>
<td>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.</td>
</tr>
<tr>
<td>Thailand</td>
<td>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 AIEP CEP separate evidence of English competency is required.</td>
</tr>
<tr>
<td>United Arab Emirates</td>
<td>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 AIEP CEP OR Successful completion of one year full-time study of a four years Bachelor degree at least Grade of 3.0 out of 4.0 at one of the Section 2 Higher Education Institutions listed on AIEP CEP AND separate evidence of English competency is required.</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>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.</td>
</tr>
<tr>
<td>USA</td>
<td>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 1300 out of 1600 in the Evidence Based Reading and Writing and Math in the SAT from the same sitting, with a minimum of 510 in Evidence based Reading and Writing and 520 in Math component OR 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 composite score of 24 or better in the American College Test (ACT).</td>
</tr>
<tr>
<td>Vietnam</td>
<td>From 2015 - Completion of the Bang Tu tai or Bang Tat nguye Pho Thong Trung hoc (Vietnamese Upper Secondary School Graduation Diploma) with at least 8.0 in the score for graduation evaluation, separate evidence of English proficiency is required. From 2014 - Completion of the Bang Tu tai or Bang Tat nguye Pho Thong Trung hoc (Vietnamese Upper Secondary School Graduation Diploma) with an average of all at least 80% in the five academic subjects through SAT or other written effective subjects in the Thí Tiếng Nghe Pho Thong Trung hoc (Secondary School Leaving Examination) – separate evidence of English competency is required.</td>
</tr>
<tr>
<td>Zimbabwe</td>
<td>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 Admissions 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.</td>
</tr>
</tbody>
</table>

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

### For Malaysian Students

<table>
<thead>
<tr>
<th>Country Qualification and Minimum Entry Requirements</th>
</tr>
</thead>
</table>
| Malaysia | Sijil Tinggi Persekolahan Malaysia (STPM) (Malaysia 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, A- =4, B3 =3, B4 =2, B5 =1, C =0 |
| OR | A minimum of 5 points obtained from at least two Advanced level subjects and a maximum of two Advanced Subsidiary level subjects (AS) are required and full English Entry Requirement. Points calculated as follows:
| A=5, A- =4, B=3, C =2, D=1 |

Grades awarded up to 2009:
| A=5, A- =4, B =3, C=2, D=1 |
Grades awarded from 2010 onwards:
| A=5, A- =4, B+ =4, B =3, C+ =2, C =1 |

#### For Students from Other Countries

<table>
<thead>
<tr>
<th>Country Qualification and Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vietnam</td>
</tr>
</tbody>
</table>

For students from countries not listed above, students should contact Curtin Malaysia for further details.
Indicative Cut-Off Scores

<table>
<thead>
<tr>
<th>Course Name</th>
<th>GCE/ A Level/ STPM (best of 3 subjects)</th>
<th>Sijil Tinggi Persekolahan Malaysia (best of 5 subjects)</th>
<th>IB</th>
<th>IGCSE</th>
<th>ATAR (WACE/ SACE/HSC/ VCE)</th>
<th>WAUPP (GCE)</th>
<th>India/ Pakistan</th>
<th>Sri Lanka</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>
<td>70</td>
<td>53</td>
<td>65%</td>
</tr>
<tr>
<td>Chemical 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>
</tr>
<tr>
<td>Civil and Construction 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>
</tr>
<tr>
<td>Computer Systems &amp; Networking (B Tech)</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>
</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>
</tr>
<tr>
<td>Construction Management (MAppSc)</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>
</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>
</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>
</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>
</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>
</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 matriculation
HKDSE : Hong Kong Diploma of Secondary Education
India : 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
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)

Subject Grades Conversion for STPM:
A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

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.

Score Conversion for GCE/IGCSE:
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 UEC:
• 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:
A+5, A=5, B=4, C=3, D=2, E=1, F=0

Note: scores for individual prerequisites may be taken into consideration for assessment purposes.
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
- Bioprocess Engineer
- Metallurgical Engineer
- Process Safety Engineer
- Research & Development Engineer

engsci.curtin.edu.my/departments/chemical-engineering/

**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

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/

**PETROLEUM ENGINEERING**
Develop methods to increase oil and gas production from subsurface reservoirs.

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

engsci.curtin.edu.my/departments/petroleum-engineering/

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

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

engsci.curtin.edu.my/departments/mechanical-engineering/

**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

engsci.curtin.edu.my/departments/environmental-engineering/

**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

engsci.curtin.edu.my/departments/civil-construction-engineering/

**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

engsci.curtin.edu.my/departments/civil-construction-engineering/

**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

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/

**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

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/

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

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

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/

**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

engsci.curtin.edu.my/departments/applied-geology/

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- Software developer
- Games developer
- Analyst
- Algorithm designer
- Web applications developer

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/
Over 1000 FREE parking spaces across the campus.

Recreation & Event Centre
HERON 3
• Faculty of Business
• Collaborative Online Learning Room

FALCON 1
• Harry Perkins Lecture Theatre

HERON 1
• Campus Reception
• Administration Offices
• Student Central
• International Division
• Student Study Area

FALCON 4
• The Learning
• The Auditorium

HERON 2
• Faculty of Humanities

FALCON 2
• Student Drop-off Zone
• Shoplots

HORNBILL 1
• HCL Labs
• ICT Helpdesk

SKYLARK 1
• Faculty of Engineering and Science
• Distributed Learning Space

FALCON 3
• Food Court

HORNBILL 2
• HDR Centre

SKYLARK 2
• Faculty of Engineering and Science

FALCON 4
• ICT Helpdesk

SKYLARK 3
• Faculty of Engineering and Science
• Distributed Learning Space

FALCON 5
• ICT Helpdesk

SKYLARK 4
• Faculty of Engineering and Science

FALCON 6
• ICT Helpdesk

SKYLARK 5
• Faculty of Engineering and Science

FALCON 7
• ICT Helpdesk

SKYLARK 6
• Faculty of Engineering and Science

FALCON 8
• ICT Helpdesk

SKYLARK 7
• Faculty of Engineering and Science
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 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 PROGRAM 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>Engineering Materials</td>
<td>25</td>
</tr>
<tr>
<td><strong>Total Credit</strong></td>
<td><strong>100</strong></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 Engineer**</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><strong>Total Credit</strong></td>
<td><strong>100</strong></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 will be given to Chemical Engineering.

**NOTE: All students intended to pursue Bachelor of Engineering (Chemical Engineering) are encouraged to enrol for MATH1001 Linear Algebra and Statistics for Engineers.**
Why Chemical Engineering?

- Curtin Malaysia’s location in Miri, an oil and gas hub, and nearby the Sarawak Corridor of Renewable Energy (SCORE), provides ample opportunities for practical learning and exposure to industry practices.

- The course has extensive support and collaboration from industry players.

- Curtin Malaysia is the first institution in Malaysia to be awarded the MacNab Medal for Excellence in Design Project (in 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), Honourable Mention Award in Crown Prince CIPTA (2015), and 3rd Institution of Engineers Malaysia (IEM) Chemical Engineering Design Competition (2014/2015).

COURSE ESSENTIALS

ENTRY REQUIREMENTS

- GCE A Levels/ S/STPM (best of 3) - B
- JEC (best of 5 subjects)* - 22
- WACE or SACE or HSC (incl. Calclulus) - 80
- ATAR - 80
- SAT or ACT - 18
- IELTS - 6.0
- TOEFL (IBT) - 80
- GMAT - 55

DURATION

4 years full-time

HOME COURSE CODE

1P1H0R 4.00/6.00/5.0 10/10

ENGLISH COMPETENCY

Mathematics: (incl. Calculus & Physics OR Chemistry)

PREREQUISITES

MLE-10, RLE-10, PLE-15

LOCATION

BENTLEY, MALAYSIA

RECOGNITION/ ACCREDITATION

- Institution of Chemical Engineers (IChemE, UK)
- Engineers Australia (EA)
- Board of Engineers Malaysia (BEM)
- Malaysian Qualifications Agency (MQA)

INTAKE

Feb, Jul

**12 weeks industrial training is compulsory for all engineering programmes

COURSE STRUCTURE

Year 1

Engineering First Year

Year 2 Semester 1

Fluid Mechanics
Principles and Processes in Chemistry
Process Heat Transfer
Process Principles

Year 2 Semester 2

Chemical Engineering Thermodynamics
Reactivity and Function in Chemistry
Process Mass Transfer
Process Engineering and Analysis

Year 3 Semester 1

Reaction Engineering
Process Modelling and Simulation
Fluid and Particle Processes
Engineering Sustainable Development

Year 3 Semester 2

Process Plant Engineering
Transport Phenomena
Process Synthesis and Design
Process Instrumentation and Control

Year 4 Semester 1

Chemical Engineering Research Project 1
Process Safety and Risk Management
Advanced Separation Processes

Year 4 Semester 2

Process Economics and Management
Chemical Engineering Research Project 2
Chemical Engineering Design Project

BACHELOR OF ENGINEERING (HONS)

CHEMICAL ENGINEERING

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.

A great variety of process industries serve the needs of society. Among the more familiar are petroleum refining, gas processing, petrochemical and polymer production, bio-processing and bio-production, bio-pharmaceuticals and food processing, fertiliser manufacture, cement and lime production, minerals and metals extraction and refining, paper and board manufacture, biomass and sugar refining, production of industrial and fine chemicals.

First Year

The major has a common first year with all other engineering disciplines which builds a range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics.

CAREER OPPORTUNITIES

The course presents wide-ranging career opportunities. The majority of graduates are employed in international mineral or oil and gas processing industries. Some are employed directly by processing companies, others by the many consulting groups that serve the industry. Employers generally regard chemical engineers as the most versatile of engineers and they are in high demand within consulting engineering groups.

Chemical Engineering at Curtin is ranked in the TOP 100 in the world for chemical engineering.

*QS World University Rankings by Subject 2018

Chemical or ‘process’ engineering involves finding the best sequence of chemical and physical processing operations, and the right operating conditions, to convert raw materials into higher-value products.
Civil and Construction Engineering

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. It is concerned with such projects as railways, harbours and docks, road systems, bridges, water supply and wastewater treatment, dams, tunnels and underground construction, power projects, offshore structures, and commercial and industrial buildings.

The effective practice of civil engineering necessitates a strong background in the mathematical and physical sciences, an understanding of the properties of construction materials such as steel, concrete and natural aggregates and an ability to evaluate the performance of structures under variable forms of loading.

Many engineering projects require a close working relationship with other groups - planners, architects, environmental scientists - and an appreciation of the impact of civil works on society in terms of both social obligations and finance. The civil engineer also needs training in management of resources, equipment, materials and finance.

First Year

The major has a common first year with all other engineering disciplines which builds a range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics.

CAREER OPPORTUNITIES

Graduates can find employment with consulting engineers, large contractors, specialist subcontractors and government authorities. Engineers may also establish their own consultancies in their fields of expertise and professional competence. Civil and construction engineers have skills that are readily transferable between employers and often find work internationally.

Why Civil and Construction Engineering?

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

Civil engineering at Curtin University is currently ranked 64th in the world*

*National Taiwan University ranking of the world’s top 500 universities 2015

Civil engineers design and construct our infrastructure. Every structure that is on or in the ground is the work of civil engineers. They build bridges, roads, harbours, highways, dams, irrigation and water supplies, hydro-electric projects, tall buildings and other large structures.

CURTIN ranked
2nd in Australia &
41st in the world

ShanghaiRanking’s 2016 Global Ranking of Academic Subjects

engsci.curtin.edu.my/departments/civil-construction-engineering

**Course Structure**

- **COURSE ESSENTIALS**
  - **ENTRY REQUIREMENTS**
    - GCE A Levels: ST/H1M (best of 3) 8
    - UCAT (best of 5 selected)* 22
    - WACE/SAE/OCAT/HSC/(VCE)/I/CAT 80
    - IB 28
    - DHA 12 (best of 8 HCE/70)
    - HSC 19
    - WACE/GAT 59
    - WACE/HAT 70
    - NCEA 99
  - **DURATION** 4 years full-time
  - **METHO COURSE CODE**
    - 1P/SP/10/15/20/30/40/60/70
    - **PRIORITY COURSE CODE**
      - 1P/SP/10/15/20/30/40/60/70
  - **PREREQUISITES**
    - Mathematics (incl. Calculus 6.0 and Physics 3.0)
  - **LOCATION**
    - MALAYSIA
  - **RECOGNITION/ACCREDITATION**
    - Malaysian Qualifications Agency (MQA)
    - Board of Engineers Malaysia (BEM)
    - Engineers Australia (EA)
  - **INTAKE**
    - Feb, Jul

**COURSE STRUCTURE**

**Year 1**
- Engineering First Year
- Year 2 Semester 1
  - Civil Engineering Materials
  - Civil Engineering Drawing and Surveying
  - Fluid Mechanics
  - Structural Analysis of Determinate Structures
- Year 2 Semester 2
  - Structural Mechanics
  - Principles of Geomechanics
  - Structural Analysis of Indeterminate Structures
  - Engineering Sustainable Development
  - Water Quality and Resources Engineering
  - Year 3 Semester 1
    - Advanced Structural Analysis
    - Transportation Engineering & Earthworks
    - Geotechnical Engineering Analysis
    - Structural Actions and Steel Design
  - Year 3 Semester 2
    - Geotechnical Engineering for Foundations
    - Civil Engineering Project and Cost Management
    - Hydraulics and Hydrology
    - Reinforced Concrete Design
  - Year 4 Semester 1
    - Civil Engineering Practices, Quality and Legislation
    - Civil Engineering Research Project 1
    - Integrated Structural Design
    - 4 optional units (Select 1)
  - Year 4 Semester 2
    - Civil Engineering Research Project 2
    - Integrated Design and Construction
    - 3 optional units (Select 2)

**ENTRY REQUIREMENTS**

- **GCE A Levels**: ST/H1M (best of 3) 8
- **UCAT**: (best of 5 selected)* 22
- **WACE/SAE/OCAT/HSC/(VCE)/I/CAT**: 80
- **IB**: 28
- **DHA**: 12 (best of 8 HCE/70)
- **HSC**: 19
- **WACE/GAT**: 59
- **WACE/HAT**: 70
- **NCEA**: 99

**ENTRY REQUIREMENTS**

- **GCE A Levels**: ST/H1M (best of 3) 8
- **UCAT**: (best of 5 selected)* 22
- **WACE/SAE/OCAT/HSC/(VCE)/I/CAT**: 80
- **IB**: 28
- **DHA**: 12 (best of 8 HCE/70)
- **HSC**: 19
- **WACE/GAT**: 59
- **WACE/HAT**: 70
- **NCEA**: 99

**DURATION**

- **4 years full-time**

**METHO COURSE CODE**

- 1P/SP/10/15/20/30/40/60/70

**PRIORITY COURSE CODE**

- 1P/SP/10/15/20/30/40/60/70

**PREREQUISITES**

- Mathematics (incl. Calculus 6.0 and Physics 3.0)

**LOCATION**

- MALAYSIA

**RECOGNITION/ACCREDITATION**

- Malaysian Qualifications Agency (MQA)
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**INTAKE**

- Feb, Jul

**COURSE STRUCTURE**

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    - 3 optional units (Select 2)
There is hardly any aspect of our modern civilization that is not dependent upon electrical energy. We use this for heating, cooling, transportation, lighting, manufacturing and production to name a few areas of application. 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.

Electronic field represents one of the fastest growing technology areas internationally and is the underlying area to many industries such as robotics and telecommunications. With the rapid progress of the information society such as the revolutionary Internet of Things (IoT), the role of electrical and electronic engineers is currently far outstripping supply, meaning that upon graduation you will be well-placed to seek employment in a variety of settings in Malaysia.

**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 international institutes.

**Career Opportunities**

Career opportunities include positions within utilities companies, manufacturing companies, consulting services, and in the electronic design and development sector. They can be involved in the generation, transmission and distribution of electrical energy, utilise modern technology to harness energy from renewable resources, and operation and maintenance of electrical and electronic infrastructure.

With the implementation of the Sarawak Corridor of Renewable Energy (SCORE) in Sarawak, the corresponding demand for electrical and electronic engineers is currently far outstripping supply, meaning that upon graduation you will be well-placed to seek employment in a variety of settings in Malaysia.

**Electrical and electronics engineering** encompasses electrical power and control, electronic, telecommunication and computer systems. Electrical and electronics underpin everyday technologies, from large devices such as electric vehicles to small devices such as mobile phones and computers. In general, electrical and electronic engineering encompasses electrical power and control, electronics, telecommunication and computer systems.
BACHELOR OF ENGINEERING (HONS)

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.

These systems may comprise mechanisms or machines made up of moving components or involve fluid flow within or around solid structures to impart forces or energy interactions. These could range from micro-mechanical devices through to massive power generating turbines.

The work of a mechanical engineer could include the design and specification of components or entire systems, design and planning of manufacturing processes, plant operation and maintenance, consulting, research and development, and management.

These tasks are common to a wide range of industries such as power generation, air material processing, generation, air material processing, manufacturing processes, plant systems, design and planning of industrial operation and project management.

First Year
The major has a common first year with all other engineering disciplines which builds a range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics.

CAREER OPPORTUNITIES

The wide breadth of knowledge and skills possessed by mechanical engineers means they are highly sought after across a wide range of engineering enterprises – from small companies to consultancies and large multi-national companies. Skills can be applied in a variety of roles including design, maintenance, industrial operation and project management.

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.

“I feel that some of the key units really focus on the application of knowledge. I had a mechanical design project in one of my units that required me to design a gearbox, and that involved everything from working out the actual application of the gearbox to sizing it to make it work in a real world situation. I think that really exposed me to how report writing and how the actual engineering design process works. I really liked learning the application of it.”

Liam Richer
Bachelor of Engineering (Hons) (Mechanical)

COURSE STRUCTURE

Year 1
- Engineering First Year

Year 2 Semester 1
- Engineering Graphics
- Engineering Mathematics
- Fluid Mechanics
- Machine Dynamics
- Fundamentals of Strength of Materials

Year 2 Semester 2
- Engineering Sustainable Development
- Manufacturing Processes
- Fundamentals of Mechanical Design
- Fundamentals of Thermodynamics
- Electrical Plant

Year 3 Semester 1
- Fundamentals of Mechanical Vibration
- Competitive Manufacturing Processes
- Advanced Strength of Materials
- Applied Thermodynamics and Heat Transfer

Year 3 Semester 2
- Linear Systems and Control
- Engineering Management
- Applied Fluid Mechanics
- Machine Design

Year 4 Semester 1
- Mechanical Engineering Research Project 1
- 5 optional units (Select 3)

Year 4 Semester 2
- Mechanical Engineering Research Project 2
- Professional Engineering Practice
- Law for Engineers
- 4 optional units (Select 2)

Why study Mechanical Engineering at Curtin University?
- Field-trip to Jaguar Research Centre
- Successful placement rate for Curtin’s Mechanical Engineering Graduates
- Curtin University is ranked in the Top 200 in the world for mechanical engineering by QS World University Rankings by Subject 2018
BACHELOR OF ENGINEERING (HONS)

PETROLEUM ENGINEERING

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.

First Year
The major has a common first year with all other engineering disciplines which builds a range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics.

CAREER OPPORTUNITIES
As a qualified petroleum engineer you will be well rewarded financially in one of the highest paid engineering jobs, enjoy extensive travel opportunities and, as one of the most technically-challenging jobs, benefit from being part of a pioneering worldwide community of professionals.

Why Petroleum Engineering?
- Lectures are accompanied by practical study in fluid and reservoir rock laboratories, geodynamic lab work and field trips to both service company offices and drilling sites.
- The petroleum engineering field offers one of the highest salary rates.
- Graduates are immediately employable in the industry upon graduation. In fact, most of our students find employment before graduation.
- Petroleum engineers are amongst the best travelled professionals in the world.
- Excellent teaching staff, many with extensive industrial experience and strong links with national and international institutes.

Did you know?
Petroleum is used to make more than 6,000 items including ink, golf bags, deodorant, footballs, DVDs, crayons, dentures, lipsticks and hair colouring.

Petroleum engineers develop methods to increase oil and gas production from sub-surface reservoirs. They play an important role in bringing oil and gas to the surface, estimating its value, and extracting it.

COURSE ESSENTIALS

ENTRY REQUIREMENTS
- GCE A-Levels/STPM (best of 3) - 8
- UEC (best of 5 selected*) - 22
- ATAR (includ. WACE/SACE/HSC/VCE) - 80
- IB - 28
- HKDSE - 19
- Petroleum Engineering - 96%
- MOHE Code: 91

DURATION
4 years full-time

MOHE COURSE CODE
1P088

ENGLISH COMPETENCY
- IELTS: Overall 6.0 (no individual band below 6.0)
- TOEFL (IBT): 68 (band minimum W-21, L-13, R-13, S-18)
- SPM 1119 English: C
- GCE ‘A’ Level: E
- GCE ‘O’ Level: C

PREREQUISITES
Mathematics (incl. Calculus & Physics OR Chemistry)

LOCATION
BENTLEY, MALAYSIA

RECOGNITION/ACCREDITATION
• Malaysian Qualifications Agency (MQA)
• Board of Engineers Malaysia (BEM)
• Engineers Australia (EA)

INTAKE
Feb, Jul

*12 weeks industrial training is compulsory for all engineering programmes

COURSE STRUCTURE

Year 1
- Engineering First Year
- Principles and Processes in Chemistry
- Fluid Mechanics
- Introduction to Petroleum Engineering
- Fundamentals of Geology

Year 2 Semester 1
- Chemical Engineering Thermodynamics
- Process Principles
- Process Engineering and Analysis
- Petrophysics and Reservoir Properties

Year 2 Semester 2
- Reservoir Engineering Fundamentals
- Hydrocarbon Phase Behaviour
- Fundamentals of Strength of Materials
- Petroleum Geology and Geophysics

Year 3 Semester 1
- Reservoir Engineering Fundamentals
- Drilling Engineering and Fluids Laboratory
- Petroleum Production Technology

Year 3 Semester 2
- Formation Evaluation
- Reservoir Engineering Practices
- Petroleum Engineering Research Project 1

Year 4 Semester 1
- Petroleum Economics, Risk and Project Management
- Advanced Drilling Engineering
- Petroleum Engineering Research Project 1

Year 4 Semester 2
- Crude Oil Processing
- Petroleum Field Development Planning
- Petroleum Engineering Research Project 2
- Petroleum Geomechanics

CURTIN is ranked in the TOP 100 (No.2) in the world for Mineral & Mining
QS World University Rankings by Subject 2018
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 water waste treatment.

Environmental engineers work to protect and manage natural resources, air, water and land. They are also highly sought after for areas such as environmental impact assessments, air pollution prevention and control, environmental monitoring/management systems, environmental consultation, soil erosion prevention measures, noise monitoring/control, development of recycling systems and oil spill recovery.

First Year
The major has a common first year with all other engineering disciplines which builds a range of basic science skills and knowledge, with particular emphasis on physics, chemistry and mathematics.

CAREER OPPORTUNITIES
Environmental Engineer, Environmental Quality Control Engineer, Health & Safety Engineer, Environmental Enforcement Officer, Risk Assessment Engineer/Executive, Consultant Engineer/Executive, Site/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/Executive, Environmental Entrepreneur.

Why Environmental Engineering?
- Our degree will equip you with an integrated 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.
BACHELOR OF SCIENCE (HONS)

APPLIED GEOLOGY

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.

CARER OPPORTUNITIES

A good Honours degree will enable you to undertake Ph D studies in Malaysia or anywhere in the World. Enhanced prospects for employment in a wide variety of careers.

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.

CURTIN is ranked in the TOP 50 in the world for Earth & Marine Sciences

Geologists study how the Earth works, including the natural planetary processes and issues directly affecting people, such as viability of resources, geological hazards, climate change and environmental protection.

engsci.curtin.edu.my/departments/applied-geology

COURSE ESSENTIALS

ENTRANCE REQUIREMENTS

- UEC (best of 5 selected*): 15
- MATRIC: 15 / WACE / SACE / HSC / OC: 10
- E: 26
- Dhana / 12 (best of 6) / ETU: 60
- HSC: 15
- APFL: 53
- Malay: 80%
- St Luka: 5

LOCATION

BENTLEY
MALAYSIA

RECOGNITION/ACCREDITATION

- Malaysian Qualifications Agency (MQA)
- The Australian Institute of Geoscientists
- Australasian Institute of Mining and Metallurgy
- Geological Society of Australia
- International Association of Hydrogeologists

INTAKE

Feb, Jul

4 years full-time

JPT/BPP
(R/433/6/0003)
10/20

PREREQUISITES

- Mathematics

DURATION

4 years full-time

MATH 1045

ENTRY REQUIREMENTS

- UEC (best of 5 selected*): 15
- MATRIC: 15 / WACE / SACE / HSC / OC: 10
- E: 26
- Dhana / 12 (best of 6) / ETU: 60
- HSC: 15
- APFL: 53
- Malay: 80%
- St Luka: 5

COURSE STRUCTURE

Year 1 Semester 1
Foundations of Chemistry
Fundamentals of Geology I
Geoscience Communication
Introductory Mathematics

Year 1 Semester 2
Evolving Earth Systems and Palaeontology
Fundamentals of Geology 2
Geoscience, Environment and Society
Introduction to Chemistry

Year 2 Semester 1
Field Geology Techniques
Mineralogy and Geochemistry
Sedimentology and Stratigraphy
Structural Geology

Year 2 Semester 2
Geological Field Mapping
Geophysics for Mineral Exploration
Igneous Petrology
Metamorphic Petrology

Year 3 Semester 1
Basin Analysis and Energy Resources
Introduction to Petroleum Engineering
Field Mapping and Stratigraphy of Sedimentary Basins
Reservoir Engineering Fundamentals
Petroleum Geology Project
Tectonics and the Dynamic Earth (Hons.)

Year 3 Semester 2
Environmental Geoscience
Formation Evaluation
Petroleum Geology Project
Tectonics and the Dynamic Earth (Hons.)
Geoscience Honours Dissertations

Year 4 Semester 1
Petroleum Geophysics
Geoscience Professional Practice

Year 4 Semester 2
Geoscience Honours Dissertation Preparation
Geoscience Honours Dissertations

*2 weeks industrial training is compulsory for all engineering programmes.
There is huge potential in cyber security across the world. Graduates can find employment as computer security experts in many different organisations due to the pervasive nature of modern computing today.

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/undergraduate-courses-2/
Software engineering adds a new dimension to software development and the development of software-based systems in the rapidly evolving information and communications technology industry.

Why use the engineering approach to software?

An engineering approach means predictability and quantifiable results through the application of theories, methodologies, frameworks, and tools.

When applied efficiently, the result is high-quality software created in a cost-effective manner.

The Software Engineering stream aims to produce graduates who are well versed in the principles of design, measurement and analysis applied in the context of the development of software-based systems.

Students will receive a strong foundation in computer science, with further emphasis on software requirements gathering, design, implementation and testing. They will also focus on communication skills, professional responsibility, ethics, interpersonal relationships, teamwork and time 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.

Core subjects include construction technology, measurement and estimating, project management, contracts administration, building law and economics, and communication and computer skills.

Before you complete your course, you will undertake 80 days of work experience during vacation time to further enhance your skills and knowledge. Students are required to source their preferred organisation themselves to enroll for the industrial training.

Core Area of Study

Technology
You will study the physical elements of construction and how they go together to form a complete structure. You will also discuss material components and examine their impact on the natural environment.

Measurement and estimating
You will calculate the cost of work and materials required in building the construction project, and learn the techniques and principles used to arrive at these figures.

Project management
You will learn how to review the management of projects. Specific topics covered include industrial relations, safety and health issues, time management, site management, quality management and property development.

Contracts administration
You will learn the legal aspects applied to construction and building contracts while the project is in progress.

Costs management
You will study contemporary techniques appropriate to cost planning and building design options. You will learn the economic framework of construction, including value management.

Communication
Communication is fundamental to construction. All forms, written, visual and oral, are assessed. You will also gain knowledge of computer applications. This unit underpins all the above subject areas.

This course is more than just a quantity surveying degree. It equips students with hands-on skills for construction management and prepares them for a wide range of professional roles in the modern building and construction industry.

CURTIN is world-ranked in 27 subjects by QS Rankings
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

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.

COURSE STRUCTURE

Year 1 Semester 1
Hardware Fundamentals
Object Oriented Programming
Linear Algebra 1
Engineering Foundations - Principles and Communication

Year 1 Semester 2
Data Structures and Algorithms
Unix and C-Programming
Computer Systems
Electronics

Year 2 Semester 1
Data Communications and Networking Management
Operating Systems
Transmission and Interface Design
Introduction to Software Engineering

Year 2 Semester 2
Database Systems
Microcomputers
Engineering Management
Object Oriented Software Engineering

Year 3 Semester 1
Computer Technology Project 1
Distributed Networks
Wireless Data Networks

Year 3 Semester 2
Computer Technology Project 2
Embedded Systems Engineering

Network Engineering

Wireless Data Networks
Network Engineering

Electronics

Network Engineering

Computer Technology Project 1

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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) includes:
   - 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

Before leaving home

1. It is advisable to book an air ticket immediately after accepting the offer 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 housing-recreation.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/
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.

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.
All courses at Curtin Malaysia are recognised by the Malaysian Ministry of Higher Education through the Malaysian Qualifications Agency. Curtin Malaysia is one of eight institutions granted self-accreditation status by the MQA.