DISCOVER A WHOLE NEW WORLD

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

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)

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.

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>Brunei 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 overall 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 last 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 an average of 60% in 4 academic subjects, and at least 60% 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>
<thead>
<tr>
<th>Qualification</th>
<th>Minimum Entry Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPM</td>
<td>5 Credits including English or 5 Credits and English competence</td>
</tr>
<tr>
<td></td>
<td>*Engineering &amp; Science Stream - 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>5C including English or 5C and English competence</td>
</tr>
<tr>
<td>UEC</td>
<td>Grade B in 4 relevant academic subjects and English competency</td>
</tr>
</tbody>
</table>
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*</th>
</tr>
</thead>
<tbody>
<tr>
<td>IELTS1</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>
</tr>
<tr>
<td>Test of English as a Foreign Language (TOEFL) (IBT)2</td>
<td>71</td>
<td>79 (band minimum W-21, L-13, R-13, S-18)</td>
<td>79 (band minimum W-21, L-13, R-13, S-18)</td>
</tr>
<tr>
<td>SPM English3</td>
<td>B</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>SPM 1119 English4</td>
<td>-</td>
<td>C</td>
<td>E</td>
</tr>
<tr>
<td>GCE A’ Level</td>
<td>-</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>GCE O’ Level5</td>
<td>C</td>
<td>C</td>
<td>C</td>
</tr>
</tbody>
</table>

1. Foundation: Applicants with IELTS 5.0 (no individual band below 4.5) are required to take the Academic English concurrently with the Foundation programme.

2. Undergraduate: Applicants with IELTS less than 6.5 but achieved 5.5 (no individual band below 5.0) are required to take Curtin University Foundation English Units.

3. Foundation: Applicants with TOEFL less than 71 but achieved 61 (or above) are required to take the Academic English concurrently with the Foundation programme.

4. Undergraduate: Applicants with TOEFL less than 79 but achieved 71 (or above) are required to take Curtin University Foundation English Units.

5. Foundation: Applicants with SPM English ‘C’ are required to take the Academic English concurrently with the Foundation programme.

6. Undergraduate: Applicants with 1119 ‘D’ are required to take Curtin University Foundation English Units.

5. Foundation: Applicants with GCE ‘O’ Level ‘D’ are required to take the Academic English concurrently with the Foundation programme.

6. Undergraduate: Applicants with GCE ‘O’ Level ‘D’ are required to take Curtin University Foundation English Units.

6. Postgraduate by research may be deemed to meet Curtin’s English language requirements based on the completion of a bachelor degree course in which English is the sole language of instruction. This will be assessed on a case-by-case basis.

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.

### Intensive English Programme

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

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

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

At the end of each nine-week term, students 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.

### Alternative 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 academic modules offered by the Office of Learning and Teaching.
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 in respective areas. A year of honours study consists of coursework at an advanced level and research or project work. In some cases, the honours programme is part of the final year of the degree programme.

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

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

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

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

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

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

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

Course prerequisites
Bachelor of Engineering Mathematics (including calculus), physics and chemistry. Bachelor of Science (Applied Geology) Mathematics. Bachelor of Technology (Computer Systems and Networking) Mathematics.

For International Students

Country Qualification 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 of 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 Gaokao) and obtain an aggregate score of at least 1000 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 580 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 80 or better in year 12 and a combined score of at least 3100 of 1260 in the Evidence based Reading and Writing and Math in the SAT from the same sitting, with a minimum of 110 in Evidence based Reading and Writing and 110 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 80 or better in year 12 and a composite score of 24 or better in the American College Test (ACT).

Hong Kong Completion of the Hong Kong Diploma of Secondary Education (HKDSE) with a point score of 15 from the best five subjects and fulfil English Entry Requirement. Points calculated as follows: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

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. Refers to course fees lists following for cut off scores.

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

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

Mauritius Three ‘Ordinary’ level passes (minimum grade C in the Cambridge School Certificate (CSC) 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 Literature of English Language OR with separate evidence of English competency.

Myanmar 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 recognised institution and English competence.

Nepal Completion of one year full-time study of a four years Bachelor, or two years full-time study of a three years Bachelor from a recognized higher education institution, separate evidence of English competency is required.

Oman Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (1770 out of 1100), separate English competency is required. This qualification does not satisfy subject prerequisites.

Pakistan Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (1770 out of 1100), separate English competency is required. This qualification does not satisfy subject prerequisites.

Russia Successful completion of one year of a four-year full-time Bachelor at a State institution or fully accredited private institution – separate evidence of English competence 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 OR with at least a grade of ‘very good’ or ‘excellent’ at one of the Section 2 Higher Education institutions listed on AEI CEP separate evidence of English competence 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 competence 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 competence.

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 AEI CEP separate evidence of English competence 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 AEI CEP 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 AEI CEP AND separate evidence of English competence is required.

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

USA From 2016 – An United States High School Diploma or a High School Diploma based on a US curriculum with an average grade of 80 or better in year 12 and a combined score of at least 3100 of 1260 in the Evidence based Reading and Writing and Math in the SAT from the same sitting, with a minimum of 110 in Evidence based Reading and Writing and 110 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 80 or better in year 12 and a composite score of 24 or better in the American College Test (ACT).

Vietnam From 2015 – Completion of the Bang Tu tai or Bang Tot nghiep Pho thong Trung hoc (Vietnamese Upper Secondary School Graduation Diploma) with at least 8.00 in the score for graduation evaluation, separate evidence of English competence is required. From 2014 – Completion of the Bang Tu tai or Bang Tot nghiep Pho thong Trung hoc (Vietnamese Upper Secondary School Graduation Diploma) with an average of at least 80% in the four academic subjects (Maths, Literature and two elective subjects in the Thoi Tot Nghiep Pho thong Trung hoc (Secondary School Leaving Examination)) – separate evidence of English competence 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 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.

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 (General Paper not accepted) and fulfil English Entry Requirement, points calculated as follows: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

OR

A minimum of 5 points obtained from two or three Advanced Level subjects, OR two Advanced Level subjects and a maximum of two Advanced Subsidiary Level (AS) are required and fulfil English Entry Requirement. Points calculated as follows: Grades awarded from 2010 onwards: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

Gradues awarded up to 2009: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

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

OR

Completion of the Malaysian Unified Examination Certificate (UCE) (Senior Middle Level) with 20 points aggregated from the best five academic subjects and fulfil English Entry Requirement. Points calculated as follows: A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

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 (General Paper not accepted) and fulfil English Entry Requirement, points calculated as follows: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

OR

A minimum of 5 points obtained from two or three Advanced Level subjects, OR two Advanced Level subjects and a maximum of two Advanced Subsidiary Level (AS) are required and fulfil English Entry Requirement. Points calculated as follows: Grades awarded from 2010 onwards: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

Gradues awarded up to 2009: A+=6, A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

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

OR

Completion of the Malaysian Unified Examination Certificate (UCE) (Senior Middle Level) with 20 points aggregated from the best five academic subjects and fulfil English Entry Requirement. Points calculated as follows: A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1

For Malaysian Students
### 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>ATAR (incl. WACE/SA-CACE/VCE)</th>
<th>WAAPP (DIFF)</th>
<th>India/ Pakistan</th>
<th>Sri Lanka</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applied Geology (BSc)</td>
<td>5</td>
<td>20</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>Chemical Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>Civil and Construction Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>Computer Systems &amp; Networking (BTech)</td>
<td>5</td>
<td>20</td>
<td>15</td>
<td>24</td>
<td>60</td>
<td>70</td>
</tr>
<tr>
<td>Electrical &amp; Electronic Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>Environmental Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>Mechanical Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</td>
</tr>
<tr>
<td>Petroleum Engineering (BEng)</td>
<td>8</td>
<td>28</td>
<td>19</td>
<td>28</td>
<td>70</td>
<td>80</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 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, B=3, 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 Grade Conversion for STPM: A+=5, A=4, B+=4, B=3, C+=2, C = 2, C+=1
- The following UEC subjects are included in the aggregate of best five subject:
  - Mathematics
  - Advance Mathematics I
  - Advance Mathematics II
  - Biology
  - Chemistry
  - Physics
  - Business Studies
  - Bookkeeping and Accounts
  - Accounting
  - Economics
  - History
  - Geography
  - Computing and Information Technology

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

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### What our graduates say...

**KOK KA YEE**
- (The Institute of Engineers, Malaysia (IEM) Gold Medal Winner 2015 and Engineers Australia (Melbourne Chapter) Outstanding Student Prize 2015)
- Course: Bachelor of Engineering (Civil & Construction Engineering)
- Graduation: Class of 2015
- Current position: PhD candidate, Curtin University Malaysia
- Country of origin: Malaysia

**Award Level**: BEng (Civil and Construction Engineering) – First Class Honours 2015

> “It was an enriching experience to pursue the Civil and Construction Engineering course at Curtin Malaysia. I benefited tremendously from the college environment fostered by the close-knit group of fellow students and lecturers. Studying at Curtin Malaysia was both fun and rewarding. The course combined comprehensive theoretical knowledge and practical know-how, which prepared me well for both industrial practice and PhD studies. As a result, I was inspired to embark on research in the field of steel structures to further develop its use in industry.”

**JEE CHING CHIN KUAN BIN BENJAMIN**
- Course: Bachelor of Science (Applied Geology)
- Graduation: Class of 2014
- Current position: Petroleum Engineer with DUG
- Country of origin: Malaysia

**Award Level**: BSc (Mechanical Engineering)-Second Class Honours 2016

> “It’s been an absolute pleasure pursuing my degree at Curtin Malaysia; be it the meticulously planned syllabus, the continuous improvements, the opportunities given by the Faculty of Engineering and Science, or the lecturers who were both motivators and mentors. I managed to gain employment soon after graduating, which is testimony to the quality of Curtin graduates and their employability.”

**IAN CHANG**
- Course: Bachelor of Engineering (Petroleum Engineering)
- Graduation: Class of 2015
- Current position: Reservoir Engineer, Shell Malaysia
- Country of origin: Malaysia

**Award Level**: BEng (Petroleum Engineering)-Honours 2015

> “Graduating from Curtin Malaysia was one of the most rewarding experiences of my life. I was very privileged to obtain an internationally recognised education in my hometown of Miri. Through its well-organised courses, Curtin provides the perfect balance of academic and practical knowledge. Interacting with diverse people from more than 45 different countries taught me to value everyone’s ways and cultures. Moreover, Curtin provided a platform for me to develop my leadership skills, soft skills and professional skills through exposure with major industry players, helping me achieve my career goals. Thank you, Curtin Malaysia, for making me who I am today!”

**ESTHER KUEH YUE NING**
- (Maris Scholarship for Excellence Award (HSEA) 2013), Shell Savings First Year Engineering Student Award (2016), Sarawak Energy’s Award for Best Project in Electrical Engineering (2016)
- Course: Bachelor of Engineering (Electrical Power Engineering)
- Graduation: Class of 2016
- Current position: Trainee Electrical Engineer, Sarawak Shell Berhad
- Country of origin: Malaysia

**Award Level**: BEng (Electrical Power Engineering)-First Class Honours

> “Curtin Malaysia is incredibly supportive of one’s personal development, in addition to providing academic excellence and cutting-edge research. As a student, my involvement in running community outreach programmes and participating in both national and international conferences through the IEEE Curtin Malaysia Student Branch and Varsity Christian Fellowship was made possible only with the support of my dedicated lecturers.”
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
- Bioprocess Engineer
- Metallurgical Engineer
- Process Safety Engineer
- Research & Development Engineer

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

**COMPRESSOR 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 sub-surface reservoirs.

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

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

**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/

**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/

**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/

**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/
CURTIN MALAYSIA

Curtin Malaysia is the largest international campus of Curtin University, a university based in Perth, Western Australia. It provides local and international students the opportunity to receive a quality Australian education and a global learning experience in a Malaysian setting in Miri, Sarawak, Malaysia.

Curtin Malaysia is owned and operated by Curtin (Malaysia) Sdn Bhd, a Malaysian company largely owned by Sarawak Government agencies. The governance of Curtin Malaysia is through the Sarawak Campus Council, Academic Board, Management Board and a Company Board of Directors. Its governing committees are made up of representatives from public sector agencies, private companies, Curtin Malaysia and local community groups.

Under the joint venture agreement between Curtin University and Curtin (Malaysia) Sdn Bhd, the latter is responsible for the physical facilities and the campus operations. Curtin University has a long-term commitment to provide internationally-recognised, high-quality degrees, priced to suit the local economy; provide skilled local graduates for commerce and industry; build the academic culture; develop postgraduate study opportunities; develop research capability in Miri; develop joint research between its main campus and Curtin Malaysia; develop technology transfers; and grow student numbers (and thus creating wealth for the community).

FAST FACTS

- A 1,200-acre beautifully landscaped garden campus with man-made lakes. Curtin Malaysia is the seventh largest international branch campus out of 200 in the world.
- Rated ‘Tier 5:Excellent’ in the Malaysian SETARA Rating System for institutions of higher learning as well as the discipline-based D-SETARA Rating System for our engineering programmes.
- One of only eight self-accrediting universities in Malaysia.
- Has three teaching faculties - Engineering & Science, Business and Humanities. Research is centred around the Faculties, Curtin Malaysia Graduate School and Curtin Malaysia Research Institute and will soon include newly-developed Biotechnology Centre.
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.
BACHELOR OF ENGINEERING (HONS.)

CHEMICAL ENGINEERING

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).

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.

COURSE STRUCTURE

Year 1
• Engineering First Year
• Fluid Mechanics
• Principles and Processes in Chemistry
• Process Heat Transfer
• Process Principles

Year 2 Semester 1
• Chemical Engineering Thermodynamics
• Reactivity and Function in Chemistry
• Process Mass Transfer
• Chemical Engineering Research Project 1
• Reaction Engineering
• Process Modelling and Simulation
• Fluid and Particle Processes
• Engineering Sustainable Development 3 optional units (Select 1)

Year 3 Semester 1
• Process Engineering and Analysis
• Process Synthesis and Design
• Process Plant Engineering

Year 3 Semester 2
• Process Economics and Management
• Bio-processing
• Bio-production
• Chemical Engineering Research Project 2

Year 4 Semester 1
• Chemical Engineering Research Project 3
• Process Safety and Risk Management
• Advanced Separation Processes
• Process Economics and Management
• Energy (SCORE)

Year 4 Semester 2
• Process Safety and Risk Management
• Advanced Separation Processes
• Process Economics and Management
• Energy (SCORE)

COURSE ESSENTIALS

ENGLISH COMPETENCY
• IELTS: Band 6.0
• TOEFL (IBT): 80
• IELTS: 8

ENTRY REQUIREMENTS
• GCE 'O' Level:
  - Mathematics: C
  - English: C

• GCE 'A' Level:
  - Mathematics: C
  - Further Mathematics: C

• ATAR (includ. WACE/SACE/HSC/VCE):
  - Mathematics: 80

• UEC (best of 5 selected*):
  - Mathematics: 80

• HKDSE:
  - Mathematics: 70

• Ontario Gr 12 (best of 6) & CPU:
  - Mathematics: 79

• IB:
  - Mathematics: 76

• SPM 1119 English:
  - C (incl. Calculus & Physics/Chem)

• TOEFL (IBT):
  - Overall: 90, Writing: 21, Speaking: 21, Listening: 21, Reading: 21

• IELTS:
  - Overall: 6.5 (no individual band below 6.0)

LOCATION
• BENTLEY, MALAYSIA

IN TAKE
• Feb, Jul

* 12 weeks industrial training is compulsory for all engineering programmes

RECOGNITION/ACCREDITATION
• Malaysian Qualifications Agency (MQA)
• Board of Engineers Malaysia (BEM)
• Institution of Chemical Engineers (IChemE, UK)
• Engineers Australia (EA)
• Institution of Engineers (Institution of Engineers Australia)
• Institution of Chemical Engineers (IChemE, UK)

DURATION
4 years full-time
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-orientated course is highly prized by graduates and respected by professional engineers
- The course is a comprehensive combination of civil engineering and construction engineering
BACHELOR OF ENGINEERING (HONS.)

ELECTRICAL AND ELECTRONIC ENGINEERING

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 becoming more crucial to make tomorrow better.

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
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.

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.

5
Curtin was awarded the highest rating of 5 (well above world standard) in electrical and electronic engineering.*

*2015 Excellence in Research Australia results

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, electronic, telecommunication and computer systems.

enqci.curtin.edu.my/departments/electrical-and-computer-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, energy development, and 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 working from working out the actual application of the gearbox in 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)

CURTIN is ranked in the TOP 250 in the world for mechanical engineering
QS World University Rankings by Subject 2017

Mechanical engineers are sought for their wide breadth of skills and knowledge across a range of engineering enterprises – from small companies to consultancies and large multinational corporations.

engsci.curtin.edu.my/departments/mechanical-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 6.00 items including ink, golf bags, deodorant, footballs, DVDs, crayons, dentures, lipsticks and hair colouring.

COURSE ESSENTIALS

COURSE STRUCTURE

ENTRY REQUIREMENTS
- GCE A-Levels/STPM (best of 3) - B
- IEC (best of 5 selected) - 2B
- MARA (academic) - B5, A1, C1
- STPM - B
- SPM or O/A level (2 subjects) - 19
- APFLY (STPM) - 59
- A-Level Mathematics - 90%
- SPM or O/A level (1 subject) - 9

ENGLISH COMPETENCY
- IELTS: Overall 6.5 (no individual band below 6.0)
- TOEFL: 79 (band minimum W-21, L-13, R-13, S-18)
- SPM 1119 English: C
- GCE ‘A’ Level: E
- GCE ‘O’ Level: C

RECOGNITION/ACCRREDITATION
- Malaysian Qualifications Agency (MQA)
- Board of Engineers Malaysia (BEM)
- Engineers Australia (EA)

LOCATION
BENTLEY, MALAYSIA

INAKE
Feb, Jul

DURATION
4 years full-time

PREREQUISITES
Mathematics (incl. Calculus & Physics OR Chemistry)

CURTIN is ranked in the TOP 100 (No.2) in the world for Mineral & Mining
QS World University Rankings by Subject 2017

engsci.curtin.edu.my/departments/petroleum-engineering
Within the broad scope of environmental engineering in Malaysia, areas earmarked for growth include water treatment, solid waste management (including industrial and hazardous waste management), and domestic and industrial waste water treatment.

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.

Environmental engineers play a vital role in maintaining the quality of the environment by designing and implementing sustainable and environmentally-friendly systems.
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.

CAREER OPPORTUNITIES

A good Honours degree with will enable you to undertake PhD 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 100 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

ENTRY REQUIREMENTS

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Score</th>
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</thead>
<tbody>
<tr>
<td>GCE A-Levels/STPM (best of 3)</td>
<td>5</td>
</tr>
<tr>
<td>UEC (best of 5 selected*)</td>
<td>20</td>
</tr>
<tr>
<td>SPM (best of 5)</td>
<td>15</td>
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<tr>
<td>WAEC (candidates must pass English)</td>
<td>10</td>
</tr>
<tr>
<td>ATAR (incl. WACE/SACE/HSC/ VCE)</td>
<td>70</td>
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<td>IELTS: Overall 6.5 (no individual band below 6.0)</td>
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<td>GCE ‘A’ Level</td>
<td>E</td>
</tr>
<tr>
<td>GCE ‘O’ Level</td>
<td>C</td>
</tr>
</tbody>
</table>

DURATION

4 years full-time

PREREQUISITES

Mathematics

LOCATION

BENTLEY, MALAYSIA

IN TAKE

Feb, Jul

COURSE STRUCTURE

Year 1 Semester 1

- Foundations of Physics
- 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
- Petrology for Mineral Exploration
- Geology
- Metamorphic Petrology

Year 3 Semester 1

- Basin Analysis and Energy Resources Engineering
- Sustainable Development Introduction to Petroleum Engineering
- Field Mapping and Stratigraphy of Sedimentary Basins
- Petroleum Engineering Fundamentals

Year 3 Semester 2

- Geotechnical Geoscience
- Petroleum Geophysics for Petroleum Engineering
- Petroleum Geology Project
- Tectonics and the Dynamic Earth

Year 4 Semester 1

- Petroleum Geophysics
- Geoscience Professional Practice

Year 4 Semester 2

- Geoscience Honours Dissertation Preparation
- Geoscience Honours Dissertation

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

There are 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).
HOW TO APPLY

To Apply

1. Complete the online Application Form at www1.curtin.edu.my/future/apply_online.htm
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 (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 housing-recreation.curtin.edu.my
4. To request the Airport Reception Service on arrival, you will need to complete the Airport Reception 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.

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.