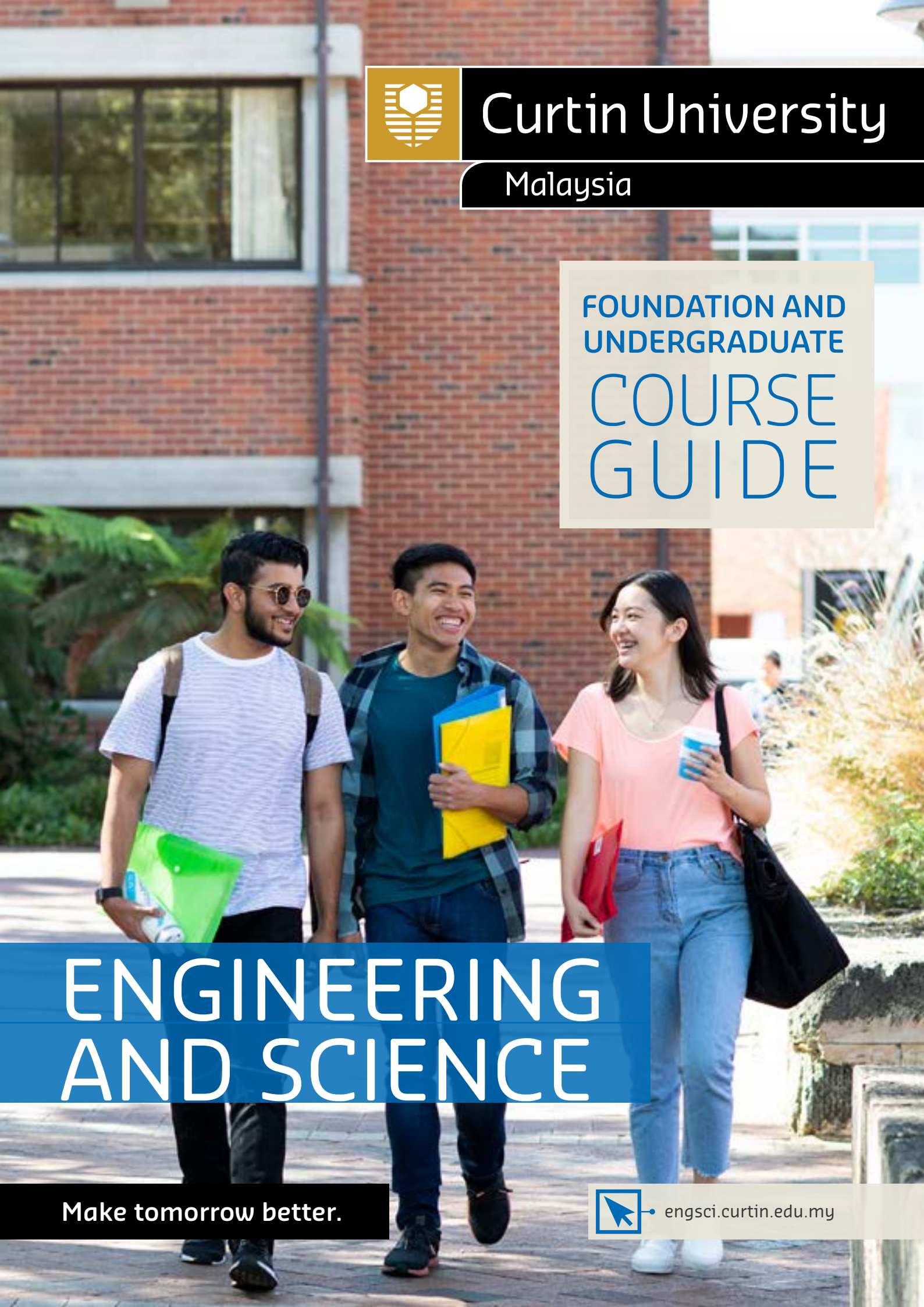

Curtin University

Malaysia

FOUNDATION AND UNDERGRADUATE

COURSE GUIDE

ENGINEERING AND SCIENCE

Make tomorrow better.

engsci.curtin.edu.my

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ACADEMIC CALENDAR

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

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

For more information, please visit: current.curtin.edu.my/academic-calendar/



WELCOME TO CURTIN MALAYSIA



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.

TOP 1%

Ranked in the top one per cent of universities worldwide

(Academic Ranking of World Universities 2019)

TOP 100

Top 100 in the world for Civil and Structural Engineering

(QS World University Rankings by Subject 2019)

FOUNDATION STUDIES

ENGINEERING AND SCIENCE STREAM

MoHe Course Code: R/010/3/0344



This course prepares students for undergraduate study in Engineering and Science, Computing and Information Technology. In addition to several units that are common to all foundation courses, students study units in Engineering Mathematics, Physics and Chemistry and Programming in C++.

Pathways to further study at Curtin Malaysia

Students with satisfactory results in the Foundation Studies - Engineering and Science Stream programme can enter degree programmes such as:

- Bachelor of Engineering (Hons) (Chemical, Civil and Construction, Environmental, Electrical & Electronic, Mechanical, Petroleum)
- Bachelor of Technology (Computer Systems & Networking)
- Bachelor of Science (Applied Geology, Computing, Health, Safety and Environment)
- Bachelor of Applied Science (Construction Management)

Further study at Curtin Perth

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

ENTRY REQUIREMENTS

For International Students

Country	Qualification and Minimum Entry Requirements
Bangladesh	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 5 relevant academic subjects and English competence.
Brunei	Brunei GCE 'O' Level - credit in 5 relevant subjects and English competence.
China	Completion of Senior Middle 3 with an overall average grade of least 60% and English competence.
Hong Kong	HKDSE - Grade D in 5 subjects and English competence.
India	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 4 relevant academic subjects and English competency.
Indonesia	Completion of Ijazah Sekolah Menengah Umum (SMU) 3/ Ijazah Sekolah Menengah Atas (SMA) and separate evidence of English competency is required.
Mauritius	GCE 'O' Level - credit in 5 relevant subjects and English competence.
Hong Kong	GCE 'O' Level - credit in 5 relevant subjects and English competence.
Pakistan	Completion of Secondary School Certificate awarded by Federal Board of Intermediate and Secondary Education with average of 60% in 4 academic subjects and seperate evidence of English competency is required.
Saudi Arabia	GCE 'O' Level - credit in 5 relevant subjects and English competence.
Singapore	GCE 'O' Level - credit in 5 relevant subjects and English competence.
Sri Lanka	GCE 'O' Level - credit in 5 relevant subjects and English competence.
United Arab Emirates	GCE 'O' Level - credit in 5 relevant subjects and English competence.

For Malaysian Students

Qualification	Minimum Entry Requirements	
GCE 'O' Level	5C including English or 5C and English competency.	
SPM	**Engineering Stream** 5 Credits including English and Mathematics and passes in Add. Mathematics and one of the Science subjects (Physics or Chemistry or Biology)	**Science Stream** • 5 Credits including English and Mathematics and pass in one of the Science subjects **#** 5 Credits including English and Mathematics, Additional Mathematics or one of the Science, Technology or Engineering related-subjects.
UEC	Grade B in 4 relevant academic subjects and English competency.	

For Degree pathway to Bachelor of Science (Computing)

Any other Qualification will be considered on a case-to-case basis.

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

ENGLISH AND ALTERNATIVE PATHWAYS

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

Minimum English language Entry Requirements

Results for IELTS and TOEFL are valid for two years.

ENGLISH QUALIFICATION	SCORE					
	Foundation	Undergraduate		Postgraduate by Coursework		Postgraduate by Research #7
IELTS#1	Overall 5.5 (no individual band below 5.0)	Engineering/B.Tech/ B.Computing: Overall 6.0 (no individual band below 6.0)	Bsc. (Applied Geology)/ BAppSc./B.HSE: Overall 6.5 (no individual band below 6.0)	Engineering: Overall 6.0 (no individual band below 6.0)	Science: Overall 6.5 (no individual band below 6.0)	Overall 6.5 (no individual band below 6.0)
Test of English as a Foreign Language (TOEFL) (IBT)#2	65	68 (band minimum W-21, L-13, R-13, S-18)	79 (band minimum W-21, L-13, R-13, S-18)	68 (band minimum W-21, L-13, R-13, S-18)	79 (band minimum W-21, L-13, R-13, S-18)	79 (band minimum W-21, L-13, R-13, S-18)
SPM English#3	B	-	-	-	-	-
SPM 1119 English#4	-	C	C	-	-	-
GCE 'A' Level	-	E	E	-	-	-
GCE 'O' Level#5	C	C	C #8	-	-	-
PTE Academic (Pearson Test of English Academic) #6	Overall 51	Overall 59 All Communicative Skills 50	Overall 63 All Communicative Skills 50	Overall 59 All Communicative Skills 50	Overall 63 All Communicative Skills 50	Overall 58 All Communicative Skills 50
MUET	Band 3 and no less than 140 in aggregate score	Band 4	Band 4 and no less than 200 in aggregate score	Band 4	Band 4 and no less than 200 in aggregate score	Band 4 and no less than 200 in aggregate score

#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.

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

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

Undergraduate: Applicants with TOEFL less than 68 but achieved 65 (or above) are required to take Curtin University Foundation English Units

#3 Foundation: Applicants with SPM English 'C' are required to take the Academic English concurrently with the Foundation programme.

#4 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.

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

#6 Foundation: Applicants with PTE Academic less than 51 but achieved 36 (or above) are required to take the Academic English concurrently with the Foundation program.

Undergraduate: Applicants with PTE Academic less than 59 but achieved 42 (or above) are required to take Curtin University Foundation English Units.

#7 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.

#8 SPM 1119 English must be completed within 5 years of application

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.

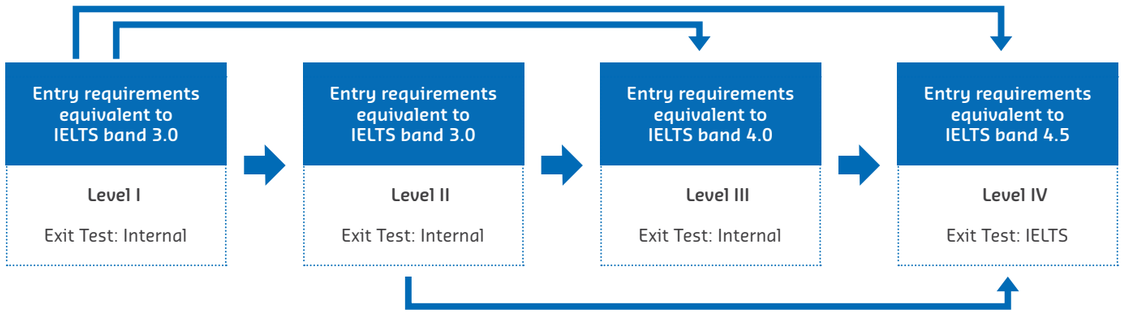
INTENSIVE ENGLISH PROGRAMME

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. 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 academic modules offered by the Office of Learning and Teaching.

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

UNDERGRADUATE STUDIES AND ENTRY REQUIREMENT

Undergraduate Degrees

Bachelor degrees

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

Honours programme

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

Credit for Recognised Learning (CRL)

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

Admission

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

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

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

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

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

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

Course prerequisites

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

Bachelor of Science:
Applied Geology - Mathematics.
Computing - Mathematics. Calculus is desirable.

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

For International Students

Country	Qualification and Minimum Entry Requirements
Bangladesh	Completion of Bangladesh Higher Secondary Certificate (HSC) with a minimum Grade Point average of 4.0 (70-79%) - separate evidence or English competency is required.
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 Gao Kao) and obtain an aggregate of the required individual subjects which is equivalent to 67% of the overall maximum score, or a grade of 322/480,402/600, 503/750, 543/810 or 603/900 AND English competence OR completion of one year of a bachelor degree at a recognised university and English competence.
Hong Kong	Completion of the Hong Kong Diploma of Secondary Education (HKDSE) with a point score of 15 from the best five subjects with at least a grade of 4 in English language or with separate evidence of English.
India	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 including English or 5 Credits and English Competence.
Indonesia	From 2013 - Successful completion of Ijazah Sekolah Menengah Atas (SMA) (Certificate of Completion from Academic Senior Secondary School) with an overall average grade of at least 80%, with evidence of passing the Ujian Nasional (National Examinations) in meet Curtin's minimum academic entry requirement. Separate evidence of English competence is required. This qualification does not satisfy any subject prerequisites.
Japan	Successful completion of first year of a Gakushi (Bachelor's degree) at a recognised institution - separate evidence of English competence is required.
Kenya	Successful completion of one year full-time study of a four years Bachelor degree 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.
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 Successful completion of the Charles Telfair Institute, Foundation Studies Program - separate evidence of English is not required
Myanmar	Successful completion of two years full-time study of a three years Bachelor degree (in in arts, economics, commerce and management, foreign languages, and science (including computer science) OR Successful completion of one year full-time study of a four years Bachelor degree (in community health, education, law, nursing, paramedical sciences, pharmacy, technology (including computer technology and nautical technology) at a recognised institution - separate evidence of English competence is required

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 competence is required.
Oman	Successful completion of one year of a degree at a recognised institution - separate evidence of English competence is required.
Pakistan	Completion of the Pakistan Higher Secondary Certificate/Intermediate Certificate with at least an average of 75% of the total marks (825 out of 1100), separate English competency is required. This qualification does not satisfy subject prerequisites.
Russia	Successful completion of one year of a four years full-time Bakalavr 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 institutions listed on AEI CEP; separate evidence of English competence is required.
Sri Lanka	Three 'Ordinary' level passes (min grade C) and two 'Advanced' level passes (min of one C and one D grade) in the General Certificate of Education (GCE) with grade C in 'O' level English, English Literature or with separate evidence of English competence OR Three 'Ordinary' level passes with minimum grades of credit and two 'Advanced' level passes with minimum grades equal to 6 points in the Sri Lankan General Certificate of Education (GCE) (Excluding General Paper) with credit in 'O' level 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 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 competence.
United States	From 2016 - United States High School Diploma or a High School Diploma based on a US curriculum with a GPA of 3.0 out of 4.0 (or an average grade of B) and a Total score (Evidence-based Reading and Writing section and Math section) of at least 1000 out of 1600 in the SAT from the same sitting, a minimum of 400 in Evidence-based Reading and Writing section, and 400 in Math section is required. Separate evidence of English competence is not required. This qualification does not satisfy any course prerequisites. Completion of a United States High School Diploma or a High School Diploma based on a US curriculum and obtain at least a Grade point score of 6 from a minimum of two but a maximum of four College Board Advanced Placement (AP) examinations, including a grade of 3 or higher in English Language and Composition or English Literature and Composition.
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. For 2014 only - 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 Thi 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.

For Malaysian Students

Qualification	Minimum Entry Requirements
STPM	*Sijil Tinggi Persekolahan Malaysia (STPM) (Malay medium) – A minimum of 5 points obtained from at least two but no more than three Sijil Tinggi Persekolahan Malaysia (STPM) subjects and fulfil English Entry Requirement; points calculated as follows: A=5, A- =4, B+ =4, B=3, B- =2, C+ = 2, C=1
A Level	*A minimum of 5 points obtained from two or three Advanced Level subjects; OR two Advanced level subjects and a maximum of two Advanced Subsidiary Levels (AS) are required and fulfill English Entry Requirement; Points calculated as follows: Grades awarded 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);
UEC	*Completion of the Malaysian Unified Examination Certificate (UEC) (Senior Middle Level) with 15 points aggregated from the best five academic subjects and fulfil English Entry Requirement (Chinese, Malay and English subjects are excluded in the calculation of aggregate points). Points calculated as follows: A1 = 8, A2 = 7, B3 =6, B4 =5, B5 =4, B6 =3, C7 =0, C8 =0
Foundation	*Completion of recognized Foundation program
Diploma	*Completion of recognized Diploma program with CGPA 2.0
Matriculation	*Completion with CGPA 2.5

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

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

Note: Students with other qualification should contact Curtin Malaysia for further details.

INDICATIVE CUT-OFF SCORES

Course Name	GCE-A Level/ STPM/ (best of 3 subjects)	UEC (best of 5 subjects)	HKDSE	IB	Ontario GR 12 (best of 6)	ATAR (incl. WACE/ SACE/HSC/ VCE)	WAUFP (CPS)	India (HSC state boards) (best of 5 subjects)	India (ISC & CBSE All best of 4 subjects)	Sri Lanka	Matriculation (CGPA)	Foundation (CGPA)
Applied Geology (BSc)	5	15	15	24	60	70	53	65%	65%	5	2.5	2.0
Chemical Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0
Civil and Construction Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0
Computer Systems & Networking (BTech)	5	15	15	24	60	70	53	65%	65%	5	2.5	2.0
Computing (BSc)	5	15	15	24	60	70	53	65%	65%	5	2.5	2.0
Construction Management (BAppSc)	5	15	15	24	60	70	53	65%	65%	5	2.5	2.0
Electrical & Electronic Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0
Environmental Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0
Health, Safety and Environment (BSc)	5	15	15	24	60	70	53	65%	65%	5	2.5	2.0
Mechanical Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0
Petroleum Engineering (BEng)	8	22	19	28	70	80	59	71%	71%	9	3.0	3.0

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)

WAUFP : Western Australia universities Prepatory Program

CPS : Combined Percentage Score

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

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

THE CURTIN EXPERIENCE



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.

ENGINEERING CAREER FINDER

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

CHEMICAL ENGINEERING

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

POSSIBLE CAREERS:

- Chemical/ Process Engineer
- Bioprocess Engineer
- Metallurgical Engineer
- Process Safety Engineer
- Research & Development Engineer

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

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/undergraduate-courses-2/

MECHANICAL ENGINEERING

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

POSSIBLE CAREERS:

- Mechatronic engineer
- Mechanical engineer
- Electronic engineer
- Engineering data specialist

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

PETROLEUM ENGINEERING

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

POSSIBLE CAREERS:

- Petroleum engineer
- Reservoir engineer
- Production/operation engineer
- Drilling engineer

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/

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/undergraduate-courses/

HEALTH, SAFETY AND ENVIRONTMENT

Specialise in identifying and managing workplace risks to ensure a safe and healthy work environment.

POSSIBLE CAREERS:

- Health and safety educator
- Health and safety environment officer
- Health and safety officer
- Health and safety workplace inspector.

engsci.curtin.edu.my/departments/health-safety-and-environment/

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/

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/undergraduate-courses-2/

COMPUTING:

CYBER SECURITY

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

POSSIBLE CAREERS:

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

SOFTWARE ENGINEERING

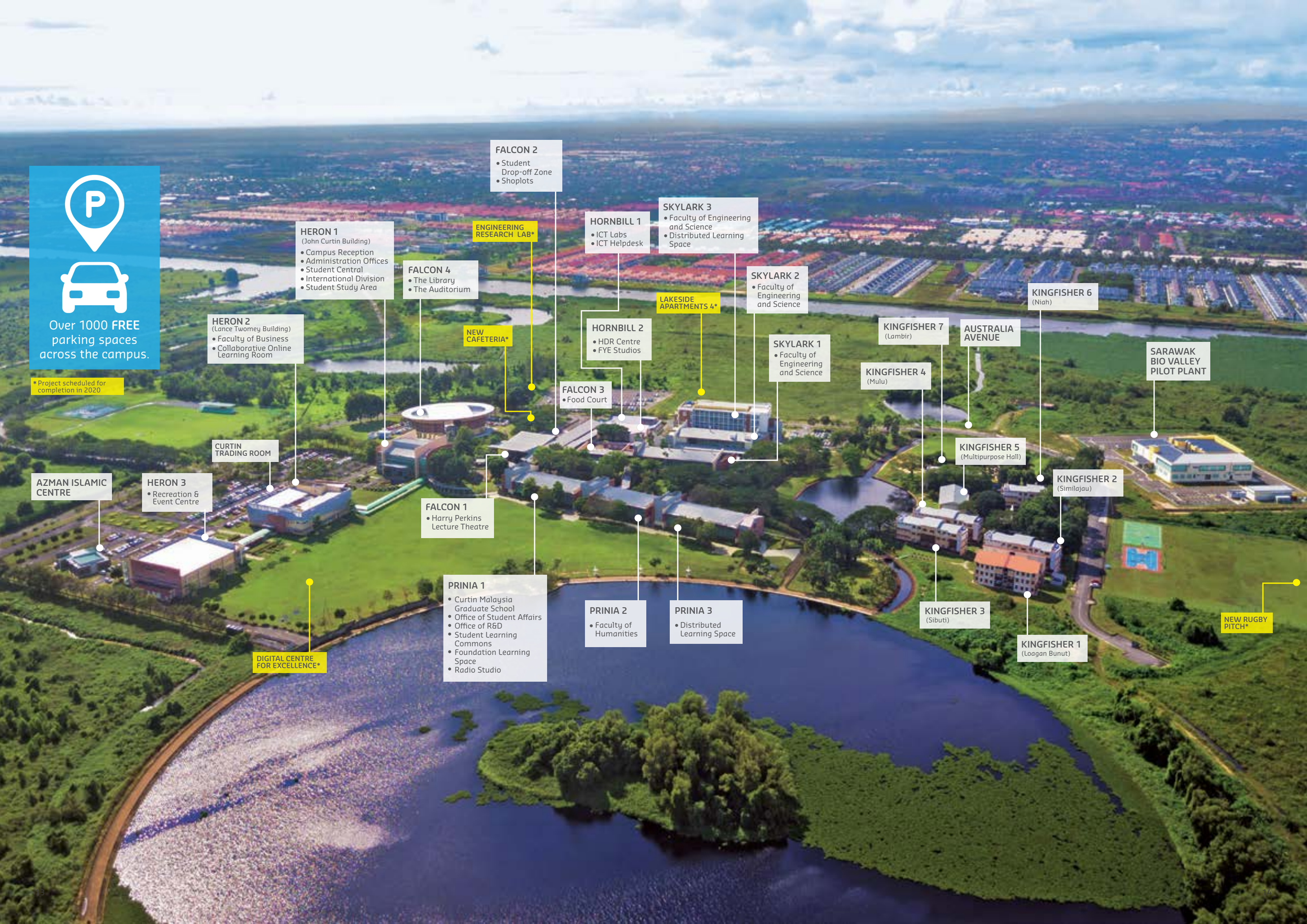
Application of a systematic, disciplined, and quantifiable approach to the development, operation and maintenance of software.

POSSIBLE CAREERS:

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

engsci.curtin.edu.my/departments/electrical-and-computer-engineering/undergraduate-courses-2/

Detailed information is available online:
engsci.curtin.edu.my


Over 1000 FREE parking spaces across the campus.
* Project scheduled for completion in 2020
HERON 1
(John Curtin Building)
• Campus Reception
• Administration Offices
• Student Central
• International Division
• Student Study Area
FALCON 2
• Student Drop-off Zone
• Shoplots
ENGINEERING RESEARCH LAB*
FALCON 4
• The Library
• The Auditorium
HORNBILL 1
• ICT Labs
• ICT Helpdesk
SKYLARK 3
• Faculty of Engineering and Science
• Distributed Learning Space
SKYLARK 2
• Faculty of Engineering and Science
LAKESIDE APARTMENTS 4*
HERON 2
(Lance Twomey Building)
• Faculty of Business
• Collaborative Online Learning Room
NEW CAFETERIA*
HORNBILL 2
• HDR Centre
• FYE Studios
SKYLARK 1
• Faculty of Engineering and Science
KINGFISHER 7
(Lambir)
AUSTRALIA AVENUE
KINGFISHER 6
(Niah)
SARAWAK BIO VALLEY PILOT PLANT
FALCON 3
• Food Court
KINGFISHER 4
(Mulu)
CURTIN TRADING ROOM
KINGFISHER 5
(Multipurpose Hall)
AZMAN ISLAMIC CENTRE
HERON 3
• Recreation & Event Centre
FALCON 1
• Harry Perkins Lecture Theatre
KINGFISHER 2
(Similajau)
PRINIA 1
• Curtin Malaysia Graduate School
• Office of Student Affairs
• Office of R&D
• Student Learning Commons
• Foundation Learning Space
• Radio Studio
PRINIA 2
• Faculty of Humanities
PRINIA 3
• Distributed Learning Space
KINGFISHER 3
(Sibuti)
KINGFISHER 1
(Loagan Bunut)
NEW RUGBY PITCH*
DIGITAL CENTRE FOR EXCELLENCE*

ENGINEERING FIRST YEAR

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 PROGRAMME STRUCTURE

Year 1 Semester 1	Credit Hours
Engineering Mechanics	25
Engineering Foundations – Principles and Communication	25
Calculus for Engineers	25
Engineering Materials	25
Total Credit	100

Year 1 Semester 2	Credit Hours
Electrical Systems	25
Linear Algebra and Statistics for Engineers**	25
Engineering Foundations – Design and Processes	25
Engineering Programming	12.5
Select optional Units to the total value of : 12.5 credits	
Introduction to Renewable Energy*	12.5
Evolution Development Successes and Failures of Engineering	12.5
Total Credit	100

**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.*

BACHELOR OF ENGINEERING (HONOURS)

Chemical Engineering

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

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

CAREER OPPORTUNITIES
- Chemical engineer
- Process engineer
- Production/operations engineer
- Risk and safety manager

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

4 Years full-time

PERTH, MALAYSIA

February, July Intake

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).

Civil and Construction Engineering

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

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

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

INDUSTRIES
- Construction
- Consulting
- Contracting
- Government
- Mining

4 Years full-time

PERTH, MALAYSIA

February, July Intake

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

Electrical and Electronic Engineering

Bachelor of Engineering (Electrical and Electronic Engineering) (Honours) JPT/BPP(R/522/6/0054)10/20

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

CAREER OPPORTUNITIES

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

INDUSTRIES

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

4 Years full-time

PERTH, MALAYSIA

February, July Intake

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.

Environmental Engineering

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

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

CAREER OPPORTUNITIES

- Environmental Engineer
- Environmental Quality Control Engineer
- Health & Safety Engineer
- Environmental Enforcement Officer
- Risk Assessment Engineer
- Consultant Engineer
- Resident Engineer
- Public Health Engineer
- Site Remediation Engineer
- Landfill Engineer
- Water Supply / Resources Engineer
- Pollution Control Engineer
- Sustainable Development Executive
- Environmental Technical Contractor
- Sales Engineer
- Environmental Entrepreneur.

4 Years full-time

MALAYSIA

July Intake

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.

Mechanical Engineering

Bachelor of Engineering (Mechanical Engineering) (Honours) JPT/BPP(R/521/6/0119) 10/20

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.

CAREER OPPORTUNITIES

- Mechanical engineer
- Aeronautical engineer
- Mechatronic engineer

INDUSTRIES

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

4 Years full-time

PERTH, MALAYSIA

February, July Intake

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.

Petroleum Engineering

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

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

CAREER OPPORTUNITIES

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

INDUSTRIES

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

4 Years full-time

PERTH, MALAYSIA

February, July Intake

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.
- Graduates are immediately employable in the industry upon graduation. In fact, most of our students find employment before graduation.
- Excellent teaching staff, many with extensive industrial experience and strong links with national and international institutes.
- The petroleum engineering field offers one of the highest salary rates.
- Petroleum engineers are amongst the best travelled professionals in the world.

BACHELOR OF APPLIED SCIENCE (HONS)

Construction Management

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

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

This course is management-oriented and focuses on a broad range of interrelated disciplines including domestic, commercial and civil construction. You will be taught by a dedicated team of professionals with qualifications and experience in construction-related disciplines.

CAREER OPPORTUNITIES
- Construction management
- Constract administrator
- Project manager
- Building technician
- Property developer
- Building surveyor
- Building contractor
- Estimator
- Quantity surveyor

INDUSTRIES
- Building and construction
- Local government
- Infrastructure

4 Years full-time

PERTH, MALAYSIA

February, July Intake

BACHELOR OF SCIENCE (HONS)

Applied Geology

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

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

CAREER OPPORTUNITIES
- Geologist
- Geological engineer

INDUSTRIES
- Enviromental geology
- Groundwater extraction
- Mineral and petroleum exploration
- Mining
- Natural hazards and risk analysis
- Radioactive waste storage
- Research and development

4 Years full-time

PERTH, MALAYSIA

February, July Intake

WHY APPLIED GEOLOGY?

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

BACHELOR OF SCIENCE

Cyber Security

Bachelor of Science (Computing) Cyber Security JPT/BPP(R/481/6/0805) 05/23

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

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

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

3 Years full-time

PERTH, MALAYSIA

February, July Intake

Software Engineering

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

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

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

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

3 Years full-time

PERTH, MALAYSIA

February, July Intake

Health, Safety and Environment

Bachelor of Science (Health, Safety and Environment) JPT/BPP(N/862/6/0080) 11/24

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

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

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

3 Years full-time

PERTH, MALAYSIA

February, July Intake

BACHELOR OF TECHNOLOGY

Computer Systems and Networking

Bachelor of Technology (Computer Systems and Networking) JPT/BPP(R/481/6/0687) 10/20

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

CAREER OPPORTUNITIES

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

INDUSTRIES

- Finance and insurance
- Government
- Mining and production operational technology
- Professional, scientific and technical services
- Public administration and safety

4 Years full-time

PERTH, MALAYSIA

February, July Intake

WHY COMPUTER SYSTEMS AND NETWORKING?

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

HOW TO APPLY

To Apply

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

   To accept the offer, complete and sign all the forms and return them with payment of all fees to Curtin Malaysia by the due date stated in the offer letter in order for the student pass and visa application to be processed.
4. The Student Pass Application pack includes (international students only) 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 receiving Single Entry Visa (for international students only) or after accepting the offer (for domestic students only) as airline seats are in high demand before the start of each semester.
2. Wherever possible, arrange your itinerary to transit at Kuala Lumpur International Airport (KLIA), which is the main entry point to Malaysia, then travel to Miri within the same day.
3. Make arrangements for accommodation. To book campus accommodation, log on to accommodation.curtin.edu.my
4. To request the Airport Reception Service on arrival, you will need to complete the Airport Reception Service (ARS) Booking Form which is available at 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.



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FACILITIES | INCLUSIVENESS | SPECIALISATION | RESEARCH

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EXCELLENT RATING 5 TIER SETARA '13

EXCELLENT RATING 5 TIER D-SETARA (ENGINEERING)

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