FACULTY OF PHARMACEUTICAL SCIENCES
UCSI is based in Cheras, Kuala Lumpur. It stands out as one of Malaysia's foremost private universities but did you also know that UCSI is:

- The 1st university in Asia to facilitate industry placement for students each year.
- One of the few Malaysian private universities to break into the 2015 and 2016 QS Asian University Rankings.
- Over 100 academic programmes make UCSI the most academically diverse private university in Malaysia by far.
- Over 30% of UCSI's student population is international.
- Over 10,000 students on campus.
- Over 1,000,000 ft² of state-of-the-art learning space will be added once UCSI's two new academic blocks are completed in 2017.
- Over 100 nationalities on campus. The world studies here.
- Over 30% of UCSI's academic staff are PhD holders and a further 17% are pursuing their doctorate.
- 96% of our co-op partners would like to rehire UCSI interns.
- The 1st in Malaysia's private higher education landscape among the best performing comprehensive private universities for graduate employability.
- The Pioneer of Aquatic Science, Biotechnology, Food Science, Music and Nutrition.*

UCSI is one of the few Malaysian private universities to break into the 2015 and 2016 QS Asian University Rankings. Tier 5 is classified "Excellent" and it is the highest rating accorded to Malaysian universities so far.
Pharmacists do much more than fill prescriptions — they are an integral part of the healthcare system and have the capacity to directly affect the lives and lifestyles of the people with whom they interact. It is also reputed to be one of the most demanding in terms of professionalism and excellence. At UCSI University, you can make your mark before you even graduate.

UCSI's Faculty of Pharmaceutical Sciences stands out as one of Malaysia's first pharmacy schools. The Faculty has a proud record of education and research in pharmaceutical sciences since 2000. Undergraduate and postgraduate programmes are both offered here with emphasis on serving the community. The Faculty boasts dedicated academic staff who are leading researchers in their own right and cutting-edge research facilities.

Research is another key driver at the Faculty. The integration of coursework with research findings in our teaching enables our students to understand and extend their power of creative and critical thinking in their pursuit of new knowledge. We also provide students with research attachment opportunities at leading institutions such as University of British Columbia in Canada and Taipei Tzu Chi Hospital in Taiwan. Some of our students publish papers in international refereed journals while others present their findings at national conferences. More students are taking up this challenge and many accomplish much. This speaks volumes about the calibre of our students and these individuals will be part of your cohort — an integral part of your lifelong network.

This is just a microcosm of the culture of excellence that you will experience first-hand at UCSI University. Your studies here will be insightful. You will immerse yourself with the depth of knowledge involved in developing medicinal products, from the discovery of lead compounds to product launches and marketing. You will learn from — and work with — the best as you contribute to the pursuit and expansion of knowledge. Challenge yourself and enrich your educational reservoir in the field of pharmacy at UCSI University.
# Bachelor of Pharmacy (Hons)

Fully accredited by the Pharmacy Board Malaysia, UCSI University’s Bachelor of Pharmacy (Hons) is well-known among industry practitioners and employers. Hands-on approach and student-centred, the programme is designed to encourage students to become independent learners who are capable of undertaking and understanding challenges in the use of medicine and in healthcare. The programme is geared towards the patient as the major focus for the application of knowledge of pharmaceutical sciences. There are four main areas within the programme: Physiology and Pharmacology, Pharmaceutical Chemistry, Pharmaceutics and Pharmaceutical Technology, and Clinical Pharmacy and Pharmacy Practice. This programme will equip you with the scientific, clinical and professional knowledge as well as strong communication skills to positively impact the healthcare system.

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**FACULTY OF PHARMACEUTICAL SCIENCES**

**Bachelor of Pharmacy (Hons)**

MQA/FA7765

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*I gained many things at UCSI — academic excellence, industry experience and effective communication skills. The lecturers have always been supportive and they played a significant role in moulding me to who I am today.*

**ALVIN TEO KO JING**

Graduated with Bachelor of Pharmacy (Hons) Pharmacy serving the Médecins Sans Frontières (MSF), also known as Doctors without Borders

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**DID YOU KNOW**

91% of UCSI pharmacy graduates stated that they performed well in their first pharmacy jobs.

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**SUBJECTS OF STUDY**

### YEAR 1

- General Chemistry for Pharmacy
- Introductory Physiology
- Microbiology for Pharmacy
- Professional Skills 1 (MPU - U2)
- Extra-curricular Learning Experience 1 (MPU - U4)
- Organic Chemistry
- Basic Pharmacology & Immunopharmacology
- Basic Medicinal Chemistry
- Professional Skills 2 (MPU - U2)
- Biostatistics for Pharmacy
- Introductory Clinical Pharmacy

### YEAR 2

- Biochemistry for Pharmacy
- Physical Pharmacy
- Dispensing & Compounding
- Antimicrobial Therapy 1
- Nervous System & Pharmacotherapy
- Extra-curricular Learning Experience 2 (MPU - U4)
- Antimicrobial Therapy 2
- Aseptic Dispensing
- Pulmonary, Renal & Pharmacotherapy
- Endocrine System & Pharmacotherapy
- Nonprescription Drugs
- Marketing for Pharmacy

### YEAR 3

- Pharmaceutical Analysis I
- Dosage Form Design 1
- Cardiovascular System, Blood & Pharmacotherapy
- Gastrointestinal System & Pharmacotherapy
- Evidence Based Medicine
- Basic Pharmacokinetics
- Extra-curricular Learning Experience 3 (MPU - U4)
- Pharmaceutical Analysis II
- Pharmacognosy
- Clinical Pharmacokinetics
- Dosage Form Design 2
- Biotechnology & Pharmacogenomics
- Nervous System & Pharmacotherapy II
- Drug of Abuse & Society

### YEAR 4

- Hospital Pharmacy Practice
- Pharmacy Management
- Pharmacotherapy 1
- Pharmacy Clerkship
- Research Project OR
- Geriatric Pharmacy
- Religions in Malaysia (MPU - U3)
- Cancer Chemotherapy
- Pharmacotherapy 2
- Clinical Clerkship
- Pharmacy Law & Ethics
- Pharmacoeconomics
- Pharmacopidemiology
- Industrial Management

* * General Courses (MPU) are compulsory for all students.

**MALAYSIAN STUDENTS**

- Ethnic Relations • Islamic Civilisation and Asian Civilisation

**INTERNATIONAL STUDENTS**

- Malaysian Studies • Communication in Bahasa Melayu 3
The highlight of UCSI University’s hands-on and student-centred approach is the UCSI Annual Public Health Campaign. A community project by the Pharmacy Student Association (UCSIUPSA) of the Faculty of Pharmaceutical Sciences, it aims to promote and educate the public on health-related issues and encourage healthy lifestyles. The campaign sees pharmacy students conducting free health checks under the close supervision of their lecturers — who are experienced pharmacists themselves.

Organised since 2002, the Campaign has been held in various states within the country including Malacca, Perak, Pahang and Selangor. The students’ responsibilities range from planning which includes getting the sponsors on board to fund the free community campaign to doing actual health checks — Body Mass Index (BMI) measurement and blood pressure tests. More than 10,000 members of the public have been positively impacted by these campaigns throughout the years.

**NOTABLE STUDENT ACHIEVERS**

**P’NG XIU WEN**
Research papers published in international refereed journals namely, the Journal of Acute Disease, the International Journal of Pharmaceutical Sciences and Research, and the Journal of Applied Pharmacy, during her study in UCSI.

**YAU MEI QIAN**
Selected to identify a prototype structure for a novel anti-epileptic drug that acts differently from the conventional type at the University of British Columbia, Vancouver, Canada.

**LIEW CHUI TING**
Selected for a research attachment at the University of British Columbia, Vancouver, Canada, to discover new potential drugs for Parkinson’s disease without having the risk of motor complications normally associated with conventional therapies using predictive modeling research.

**CHEE ZHEN WEI**
Selected for a research attachment at the University of British Columbia, Vancouver, Canada, to create a mutated KCNQ2 gene that contains epilepsy mutations obtained from patients at the British Columbia Children’s Hospital.

**COMMUNITY SERVICE LIKE NO OTHER**

The annual UCSI Public Health Campaign
FACILITIES

PHARMACY POSTGRADUATE LAB
A dedicated Pharmacy Postgraduate Lab was launched in 2011 to facilitate cutting-edge research. The lab is equipped with advanced facilities like high performance liquid chromatography (HPLC), Fourier transform infrared spectroscopy (FT-IR), and UV-Visible spectrometer, among others.

PHARMACY PROJECT LAB
This lab is used to train students on the technology of drug formulation, formulation evaluation and quality assurance of drugs. UCSI pharmacy students have the option of undertaking a research project and this lab was purpose built to facilitate that.

PHARMACY PRACTICE LAB
The Pharmacy Practice Lab is used by students to practise and master their drug compounding and preparation skills in various dosage forms, including the injectables before entering the workforce. A new cleanroom facility is included in this lab.

PHYSIOLOGY AND PHARMACOLOGY LAB
This Lab provides students the equipment and opportunities to explore disease mechanisms, new pharmacological tools and new medications.

DID YOU KNOW
93% of our lecturers receive ‘EXCELLENT’ — the highest rating — scores by our students in annual reviews. They are leading researchers in their own right and receives multiple research grants each year. This is the quality you can expect at UCSI.

ASSISTANT PROFESSOR
DR PALANIRAJAN VIJAYARAJ KUMAR

Received the Fundamental Research Grant Scheme from the Ministry of Higher Education worth RM130,200.
Preparation and in-vitro evaluation of enteric coated oral sustained release formulation with mucoadhesive properties.
## ENTRY REQUIREMENTS

**Intake: August**

### QUALIFICATIONS

<table>
<thead>
<tr>
<th>BASIC REQUIREMENTS</th>
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<tbody>
<tr>
<td><strong>A-LEVELS</strong></td>
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<tr>
<td>BBB, AAC or ABC in Biology, Chemistry and Physics or Mathematics. Minimum B grade in Chemistry is compulsory.</td>
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<tr>
<td>(With reference to the Score system of the Universities and Colleges Admission Service (UCAS) carried out at United Kingdom for A-level result with score of A+ = 140, A=120, B=100 and C=80)</td>
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<tr>
<td>3B proposed by LFM is equal to the total score of 300 with B for Chemistry course.</td>
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| **STPM** |
| BBB, AAC or ABC in Biology, Chemistry and Physics or Mathematics. Minimum B grade in Chemistry is compulsory. |
| Overall CGPA minimum 3. |

### BASIC REQUIREMENTS

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<tr>
<th><strong>MATRICULATION OR PRE-STUDY IN MEDICINE AND PHARMACY</strong></th>
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<td>(Minimum 1 year of study)</td>
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<td>CGPA 3.0 and above with minimum &quot;B&quot; in Chemistry.</td>
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<th><strong>FOUNDATION IN SCIENCES</strong></th>
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<td>(Minimum 1 year of study)</td>
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<td>CGPA 3.0 and above with minimum B in Chemistry.</td>
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<tr>
<td>(Minimum 1 year of study)</td>
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<tr>
<td>Diploma in Science (Chemistry or Biology or Physics) CGPA 3.75 and above including B in Chemistry subject.</td>
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<td>Diploma in Pharmacy CGPA 3.5 and above.</td>
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<th><strong>FIRST DEGREE IN SCIENCE</strong></th>
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<td>CGPA 2.75 and above (CGPA 2.75 = Gred C+)</td>
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<th><strong>UEC</strong></th>
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<td>Pass with a minimum B4 grade in Biology, Chemistry, Physics, Mathematics, Additional Mathematics and one other subject.</td>
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### ENGLISH REQUIREMENTS

**ADMISSION REQUIREMENTS**

- Malaysian students **MUST** pass Bahasa Melayu and English with minimum Grade C in SPM.

- MUET minimum Band 3 **OR** TOEFL score of 550 **OR** IELTS Band 6 (minimum 5.5 in every section)

**Note**

- Compulsory Courses: Chemistry, Biology and Physics / Math
- All international candidates are required to undergo an interview session prior to admission into the programme.

### CAREER OPPORTUNITIES

- Academic Pharmacist
- Community Pharmacist
- Hospital Pharmacist
- Industrial Pharmacist
- Pharmacologist
- Primary Health Care Pharmacist
- Regulatory Pharmacist
- Research Scientist
- Toxicologist
- Veterinary Pharmacist