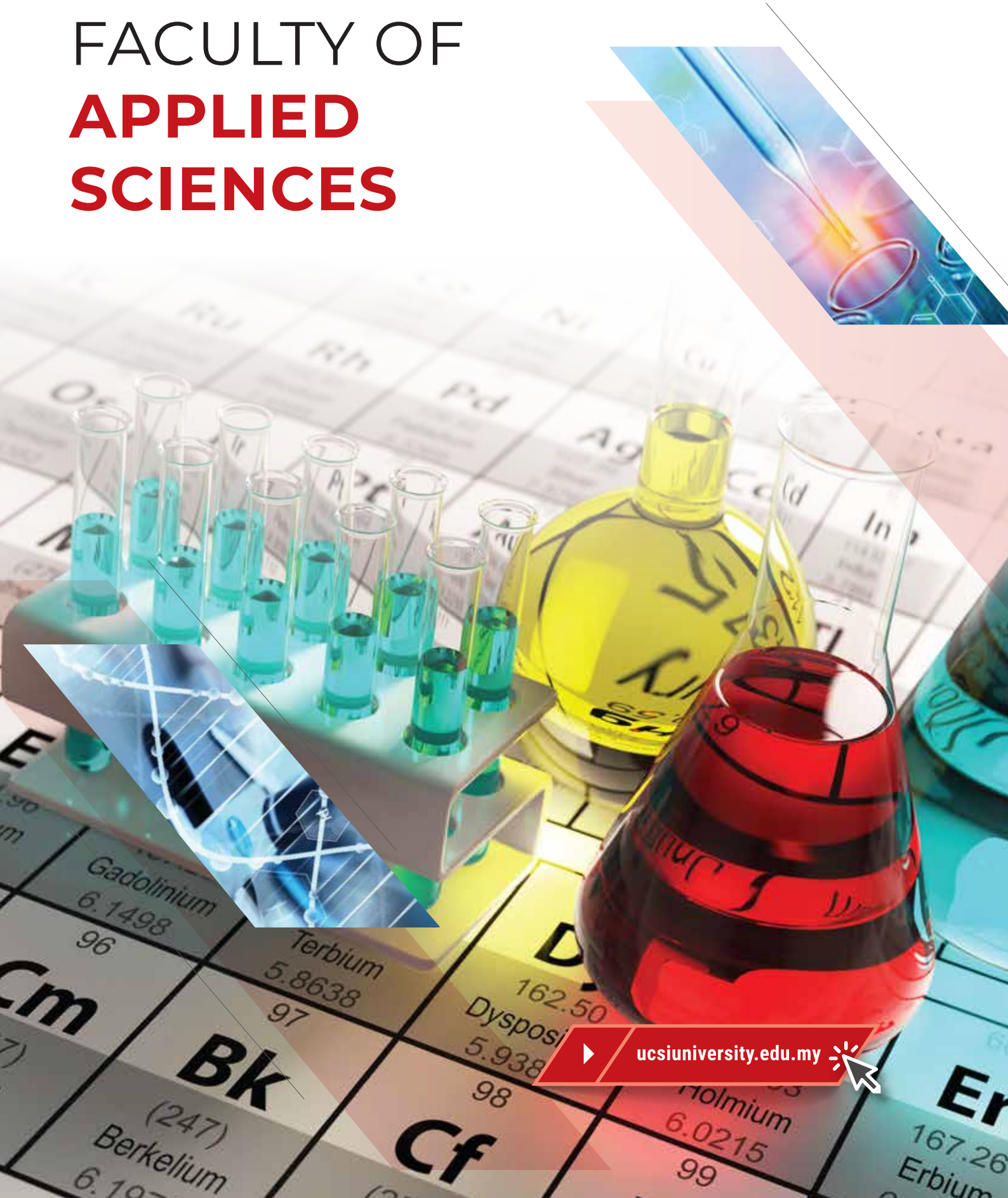
UCSI University®

FACULTY OF **APPLIED SCIENCES**



ucsiuniversity.edu.my

WORLD'S TOP 1%
#265 AND RISING
ONE OF ASIA'S TOP PRIVATE UNIVERSITIES

QS WORLD UNIVERSITY RANKINGS 2025

#1
MALAYSIA'S TOP PRIVATE UNIVERSITY FOR GRADUATE EMPLOYABILITY AND OUTCOMES

Malaysia's top private university for graduate employability
Higher Education Ministry's Graduate Employability 2021-2022 survey.

Malaysia's top private university for employment outcomes
QS World University Rankings 2024

Four Forbes 30 Under 30 Asia inductees

Three Prestige 40 Under 40 laureates

UCSI's SUBJECT MILESTONES

QS World University Rankings by Subject 2025

#32 PERFORMING ARTS (MUSIC)	TOP 100 HOSPITALITY AND LEISURE MANAGEMENT	TOP 150 ART AND DESIGN
TOP 150 PETROLEUM ENGINEERING	TOP 250 BUSINESS AND MANAGEMENT STUDIES	TOP 450 CHEMICAL ENGINEERING
TOP 500 ELECTRICAL AND ELECTRONIC ENGINEERING	TOP 500 COMPUTER SCIENCE AND INFORMATION SYSTEMS	TOP 600 MEDICINE

RCE KUCHING

RCE GREATER KUALA LUMPUR
REGIONAL CENTRE OF EXPERTISE Education for Sustainable Development

UCSI University is the first and only private university in Malaysia to receive a double recognition as Regional Centre of Expertise (RCE) by the United Nations University : RCE Kuching and RCE Greater Kuala Lumpur

100% EMPLOYABILITY SCORE for all UCSI programmes listed in the Malaysian Higher Education Ministry's Graduate Employability 2022 Survey (IPTS)

MORE THAN **4,800** global companies provide our students with internships

98% of our Co-Op partners would like to hire UCSI interns

Students from over **120 NATIONS**
International students make up around 30% of UCSI's student population

28 UCSI ACADEMICS are Fellows of Academy of Sciences Malaysia or ranked in the World's Top 2% Scientists by Stanford University

>55% of UCSI's academic staff are PhD holders and a further 16% are pursuing their doctorate

The 1st university in Malaysia's private higher education sector to offer programmes in Aquatic Science, Biotechnology, Food Science, Music and Nutrition

The artist's impression of UCSI's education city in Kuala Lumpur

EMPOWERING CHANGEMAKERS

UCSI University is one of Asia's top private universities. It is classified in the world's top 1% in the QS World University Rankings 2025, by virtue of its top 265 ranking. UCSI was the only university to receive the QS Recognition for Improvement Award - an award given to universities that improve the most ranks on average - at the 2022 QS EduData Summit in New York. And the University has steadily enhanced its global profile over the past decade.

Changemakers study here. Four UCSI alumni are Forbes 30 Under 30 Asia inductees. From social entrepreneurship to impactful visual storytelling, they raise aspirations and win the respect of the world. Three more alumni are Prestige 40 Under 40 laureates for their contributions to Malaysia's creative industry. And many more entrepreneurs, scientists, doctors, media personalities, musicians and national athletes make up UCSI's acclaimed alumni network.

Research and scholarly pursuit are part of UCSI's DNA. The University is equipped with state-of-the-art labs that feature the latest IR4.0 technologies in engineering, medicine, pharmacy and biotechnology. Students learn from academics who are at the forefront of their respective disciplines. UCSI's collaboration with some of the world's best universities also presents invaluable opportunities for students.

Since 2014, UCSI's top students have been annually selected to advance high-impact research at Harvard University, Imperial College London, the University of Chicago, Tsinghua University, the University of Queensland and the University of British Columbia, among others. UCSI students have gone on to work with some of the world's best minds in the fields of endocrinology, nanotechnology, pharmacology and materials science, among other critical fields.

Graduate employability is another one of UCSI's calling cards. The University has a 100% employability score in the Malaysian Higher Education Ministry's Graduate Employability 2022 survey. UCSI counts over 4,800 companies in its industry network. This includes many of the world's best firms like Accenture, CIMB, Deloitte, DHL, EY, HP, HSBC, KPMG, Maybank, Nestle, Samsung, Shlumberger, P&G, Petronas and PWC, among many others. This dynamic setup facilitates internship arrangements, joint research opportunities, technology transfers and of course, job offers.

With these unique strengths and more, UCSI stands out as a university that offers an education few can, provides experiences others can't and delivers game-changing outcomes for students around the world.

Faculty of Applied Sciences

UCSI University's Faculty of Applied Sciences provides smarter solutions for a smarter planet. Students and staff drive innovation on a daily basis with their research areas being as impressive as they are diverse such as the suitability of local herbs in cancer treatment, and the use of jellyfish toxins as therapeutic solutions, to name a few.

This dynamic culture of scientific discovery is driven by the Faculty's goal to develop effective biology-based technology for application in everyday life. Nothing is ever taken for granted and each conjecture is thoroughly debated, assessed, tested, and refined. The Faculty is making great strides in drug discovery, food and water safety, greater crop yield, and the cure of diseases, among others with no signs of stopping.

Research is a central theme at the Faculty as most of the academics are PhD holders who stand out in their respective disciplines, being actively involved in publishing their work in international research journals while being fully committed to supervising their students. Many of them have worked overseas at top leading companies, research facilities, and universities. They bring their vast academic and industry network along with them, thus creating collaboration opportunities for students and staff.

Your journey begins here, at UCSI.

Why study Applied Sciences at UCSI?

>95% OF STAFF ARE PHD HOLDERS

>80% OF STAFF ARE EQUIPPED WITH THE POSTGRADUATE DIPLOMA IN TERTIARY TEACHING (PGDTT)

ACHIEVED 100% GRADUATE EMPLOYABILITY SCORE IN A MINISTRY OF HIGHER EDUCATION SURVEY (2022)

>40% OF ACADEMICS ARE APPOINTED AS INDUSTRY CONSULTANTS

RESEARCH OPPORTUNITIES TO RENOWNED UNIVERSITIES LIKE HARVARD AND YALE

Renowned Academics

Learn from a team of acclaimed professors and academics who are at the forefront of their respective disciplines. Work with them, be mentored by them and benefit from their wealth of experience.

ASSOCIATE PROFESSOR
DR CRYSTALE LIM SIEW YING
Dean, Faculty of Applied Sciences

PhD Molecular Medicine
BSc (Hons) Biomedical Sciences
Recipient of the L'Oreal-UNESCO 'For Women in Science' National Fellowship 2006

ASSOCIATE PROFESSOR TS
DR TEO SWEE SEN
Head of Research and Postgraduate Studies

PhD Genetic Engineering and Molecular Biology
MSc Genetic Engineering and Molecular Biology
BSc (Hons) Biology

ASSISTANT PROFESSOR
DR CHANG LEEE SIN
Head of Department, Foundation in Science

PhD in Food Biotechnology
BSc (Hons) in Food Science and Technology

ASSISTANT PROFESSOR
DR TAN CHOON HUI
Head of Department, Food Science with Nutrition

PhD Food Technology
BSc (Hons) Food Technology

DR YUVANESWARI
CHANDRAMOULEE SWARAN
Head of Programme, Forensic Science

PhD Pure and Applied Chemistry
BSc (Hons) Forensic Science
Diploma in Medical Laboratory Technology

PROFESSOR DATUK
DR ROHANA BINTI YUSOF, FASc
Professor | Department of Biotechnology
Deputy Vice-Chancellor, Academic and Internationalisation (Kuala Lumpur campus)

MSc Biochemistry and BSc (Hons) Biochemistry
BSc (Hons) Biochemistry

PROFESSOR PASCAL DEGRAEVE
Visiting Professor

Department of Biological Engineering, Claude Bernard University Lyon 1, France

ASSISTANT PROFESSOR
DR MICHELLE SOO OI YOON
Deputy Dean

PhD Fish Parasitology and Molecular Biology
BSc (Hons) Ecology and Biodiversity

DR LAU YIN YIN
Head of Praxis, Industry and Community Engagement

PhD Microbiology, Genetics and Molecular Biology
BSc (Hons) Biomedical Science
Dip (Major in Science, Mathematics and Calculus)

ASSISTANT PROFESSOR DR CHEW LI LEE
Head of Department, Biotechnology
Head of Programme, Applied Microbiology, Aquatic Science; Aquaculture with Entrepreneurship

PhD Marine Ecology and Diversity (Planktology)
BSc (Hons) Marine Biology

DR SHASHIKALA SIVAPATHY
Head of Programme, Nutrition with Wellness

PhD Science (Nutrition)
MSc Community Nutrition
BSc (Hons) Nutrition and Community Health

DISTINGUISHED PROFESSOR
DR PHANG SIEW MOI, FASc
Professor | Department of Biotechnology
Deputy Vice-Chancellor, Research and Postgraduate

PhD Botany (Applied Phycology)
MSc Botany
BSc (Hons) Botany
Fellow Academy of Sciences Malaysia

PROFESSOR DR NAJMA MEMON
Visiting Professor

National Centre of Excellence in Analytical Chemistry, University of Sindh, Pakistan

PROFESSOR PUNSYALOKE BHADURY
Visiting Professor

Indian Institute of Science Education and Research, Kolkata, India

Foundation

Pioneer biotechnological breakthroughs in medicine and drug discovery. Improve crop yield. Harness the ocean's untapped potential and discover its hidden secrets. Preserve the ecosystem for generations to come.

At UCSI University, we have long acknowledged the importance of science. To provide an ideal start to prodigious students like you, we have introduced our specialised foundation pathways in Applied Sciences to provide you with avenues to specialise from day one of your pre-university studies. On top of easing your transition to degree studies in the future, these pathways in Biotechnology, Aquatic Science, and Food Science and Nutrition provide you with an edge as you will be equipped with a deeper understanding in your preferred discipline. You will learn from an acclaimed team of academics who have extensive ties with the industry. Many have won accolades for their contributions to science and research and you can look forward to sharing their passion for science. From the classroom to the lab to industry visits, learning is convivial and dynamic. You will enjoy access to state-of-the-art facilities and vast repositories of knowledge. As you mature into an independent and critical thinker, you will appreciate how your Foundation study was the watershed pursuit of scientific knowledge.

This is the dynamic environment you can look forward to with the specialised foundation pathways in Applied Sciences. Start focused and raise your aspirations.

Start Focused. Stay Ahead.

UCSI's specialised foundation pathway helps you acquire a much stronger grasp of your chosen field of study while covering the overall reach of a standard foundation programme. Apart from helping you immensely as you progress to degree studies, UCSI's foundation programme also provides you with an early taste of what the industry expects.

Core Courses

- General Chemistry 1
- General Chemistry 2
- General Biology 1
- General Biology 2
- General Physics 1
- Introduction to IR4.0 Technologies for Sustainable Development
- Fundamentals of Mathematics
- Introduction to Probability & Statistics
- Algebra & Trigonometry
- Introductory Calculus
- Computing Essentials

+

Elective Courses *(choose any 3)*

- Introduction to Pharmacy
- Introduction to Formulation Science
- Current Topics in Aquaculture
- Biotech and Forensics: The Science that Drives Life
- Food and Nutrition: Journey Towards Health
- Role of Engineers in Society
- Elementary Engineering Design
- Fundamentals of Culinary Arts
- Introduction to Hospitality and Tourism Industry
- Event Management
- Web Development
- Fundamentals of Programming
- Introduction to Logistics and Supply Chain Management
- Introduction to Law
- Smart Learning Technology
- Media Literacy
- Civic Studies
- Fundamentals of Design
- Fundamentals of Computer Graphics
- Analytical Drawing
- Introduction to Structure
- Introduction to Built Environment

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Bachelor Degrees

- BSc (Hons) Biotechnology
- BSc (Hons) Forensic Science
- BSc (Hons) Food Science with Nutrition
- BSc (Hons) Nutrition with Wellness
- BSc (Hons) Aquatic Science
- BSc (Hons) Applied Microbiology

English Requirement for Foundation in Science

Candidates with a minimum grade of A2 in UEC English Language, Band 2 in MUET, 30-31 in TOEFL, 4.0 in IELTS, grade C in O-Level or IGCSE or SPM English 1119, grade B1 (with at least 2 skills at B1) in CEFR, 140 in Cambridge English Qualification, 140 in Cambridge Linguaskill, and 36 in Pearson Test are exempted from SE004 Basic English and SE005 English Foundation. Other equivalent qualification can be exempted on case-by-case basis.

Candidates who scored lower than B+ in SPM English Language or than the above requirement will have to take the SE004 Basic English subject before taking the SE005 English Foundation subject in the foundation year.

Diploma in Aquaculture with Entrepreneurship

(R/620/4/0001) (10/2024) (MQA/FA4100)

Anchored on the scientific understanding of aquatic management, this programme addresses the exploration, improvement and conservation of all freshwater and marine food resources. In ensuring students have an edge after graduation, this programme integrates the scientific aspects of aquaculture with the business aspects thus enabling one to venture into commercial activities such as business and entrepreneurship. You will develop the edge needed to thrive in a booming industry and the know-how to balance commercial benefit and sustainability concerns. And with a credential that inspires confidence, you can look forward to make a pertinent contribution in the industry.

** This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 2 (for international students)
- Fundamentals of Chemistry
- Aquatic Microbiology
- Introduction to Biological Research and Analysis
- Operational Management for Aquaculture
- Aquatic Biodiversity and Conservation
- Aquatic Biology
- Water Systems: Management, Quality and Analysis
- Current Topics in Aquaculture
- Basic and Practices of Marketing
- Fundamentals of Management
- Extra-curricular Learning Experience I (MPU4)
- Co-Operative Placement 1

Year 2

- Aquaculture Facility Selection and Design
- Broodstock Management for Aquaculture
- Aquatic Health and Diseases
- Aquaculture Species Selection and Development: Project 1
- Aquaculture Species Selection and Development: Project 2
- Fish Nutrition and Feed Technology
- Seafood Industry
- Selective Breeding and Hybridisation in Aquaculture
- Principles of Accounting
- Business Communication for Diploma
- Entrepreneurship (MPU2)
- Logistics Business Strategy and Planning
- Extra-curricular Learning Experience II (MPU4)
- Co-Operative Placement 2

Career Opportunities

Aquaculture entrepreneurs | Researchers | Aquarists | Aquaculture farmer or manager | Seafood scientists or quality control inspectors | Science or research assistant | Water filtration or management consultant | Fish and game warden | Aquaculture feed production line

BSc (Hons) Biotechnology

(R2/545/6/0029) (06/2024) (MQA/A10420)

Being among the first Biotechnology educators in Malaysia's private higher education sector, there are numerous strategic partnerships with leading global science companies. This facilitates student and staff access to tech transfers, internships, site visits, talks, and job prospects. The programme's versatility covers genetics, pharmacology, and more, addressing biotech challenges. Infuse scientific passion with business acumen, unlocking opportunities worldwide. The curriculum spans Artificial Intelligence (AI), Internet of Things (IoT), whole genome sequencing (WGS), nurturing bio-entrepreneurs in agri-tech, environment, and food.

** This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 3 (for international students)
- University Life
- Integriti & Anti Rasuah (Integrity & Anti-Corruption)
- Extracurricular Learning Experience 1
- Chemistry for Applied Sciences
- Biomolecular Structure & Function
- Fundamental Techniques in Applied Sciences
- Biochemistry: Principles & Experiments
- Microbiology
- Introduction to Biomaterials
- Molecular Cell Biology
- Analytical Chemistry
- Co-Operative Placement 1

Year 2

- Extracurricular Learning Experience 2
- Immunology
- Biocatalysts & Biosensors
- Introduction to Programming
- Tools in Genetic Engineering
- Research Methods & Data Analysis
- Animal Cell Culture Technology
- Plant Biotechnology & Genetics
- Pharmacology
- Environmental Biotechnology & Sustainability
- Elective I
- Co-Operative Placement 2

Year 3

- Extracurricular Learning Experience 3
- Falsafah & Isu Semasa
- Bioinformatics
- Human Genetics
- Fermentation Technology & Downstream Processing
- Biotechnology Research Project A
- Bioeconomy & Commercialization
- Bioprocess Engineering
- Biotechnology Research Project B
- Elective II
- Elective III
- Co-Operative Placement 3

Elective (Choose one)

- Food Chemistry
- Food Processing & Packaging
- Food Microbiology
- Entrepreneurship for Applied Sciences
- Fundamentals of Marketing
- Fundamental of Management
- Introduction to Public Speaking
- Ecology & Sustainability
- Environmental Monitoring & Assessment
- Conservation & Management of Aquatic Resources
- Current Topics in Aquatic Science
- Aquatic Pollution & Toxicology

International Degree Pathways

- **University of Queensland** (2+2)
  Bachelor of Science:
  Cell Biology major
  Biochemistry and Molecular Biology major

- **University of Queensland** (2+2)
  Bachelor of Biotechnology:
  Molecular and Microbial
  Biotechnology extended major

Career Opportunities

Researcher | Quality control and quality assurance | Clinical research co-ordination | Bioinformatics computational analyst | Venture capitalist business | Biotechnology technopreneurs | Intellectual property (IP) and patent law | Sales and support services for the biotechnology industry, ecology, waste management and environment pollution control

BSc (Hons) Food Science with Nutrition

(R2/541/6/0018) (03/2024) (MQA/A10009)

Through our dynamic Food Science with Nutrition degree programme, you will explore the secret science behind food production, development and safety while you develop the research skills to enable you to pursue an exciting career within the food manufacturing industry, research institutes, government, and consumer organisations. As the market leader of Food Science studies in Malaysia, you will be able to utilise the latest practices in the industry and experience first-hand how technology affects food production and flavour delivery. You will enjoy avenues to create new food products and market them. And with a sound understanding of food safety, nutrition and legislation, you can rest assured that your future endeavours will change lives.

** This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 3 (for international students)
- University Life
- Integriti & Anti Rasuah (Integrity & Anti-Corruption)
- Extracurricular Learning Experience 1
- Chemistry for Applied Sciences
- Human Physiology
- Principles of Nutrition
- Microbiology
- Introduction to Biochemistry
- Food Chemistry
- Lifespan Nutrition
- Co-Operative Placement 1

Year 2

- Extracurricular Learning Experience 2
- Nutrition and Metabolism
- Analytical Chemistry
- Food Microbiology
- Food Processing and Packaging
- Basic Food Preparation
- Plant Product Processing
- Nutritional Assessment
- Halal and Food Legislation
- Entrepreneurship for Applied Sciences
- Co-Operative Placement 2

Year 3

- Extracurricular Learning Experience 3
- Falsafah & Isu Semasa
- Research Methodology and Data Analysis
- Animal Product Processing
- Fundamentals of Food Engineering
- Food Science and Nutrition Research Project 1
- Product Development and Sensory Evaluation
- Food Safety and Quality System
- Food Science and Nutrition Research Project 2
- Introduction to Food Industry
- Functional Food for Wellness
- Food Science and Nutrition Research Project 3
- Co-Operative Placement 3

Nutrition Elective (Choose 1 **)

- Principles of Health and Wellness **
- Nutrition and Non Communicable Chronic Diseases **
- Nutritional Immunology and Genetics **
- Seminar: Current topics in Nutrition and Wellness **
- Food Security and Policy **

Free Elective (Choose 1)

- Fundamentals of Marketing
- Introduction to Public Speaking
- Fermentation Technology and Downstream Processing

International Degree Pathways

- **Northumbria University** (1+2)
  Bachelor of Science (Hons) Food Science & Nutrition
- **University of Queensland** (2+2)
  Bachelor of Science:
  Food Science and Nutrition major
  Food Technology major

Career Opportunities

Food scientists | Food technologist | Quality control and quality assurance executive | Research and development executive | Food microbiologists | Food safety inspectors | Food regulatory affair executive | Halal and systems executive | Food product development scientist | Food quality auditor | Flavour chemists | Researcher

BSc (Hons) Nutrition with Wellness

(R/726/6/0039) (12/2025) (MQA/FA2967)

If you are passionate about food, eager to explore how it affects the health of the individual and the nation, and curious to discover how diet can be used in the treatment of disease, our Nutrition with Wellness programme is for you. You will broaden your knowledge through a broad range of courses that underpin nutritional sciences. Our programme has an active application across a range of health and professional industries and will equip you with the knowledge, skills and expertise required to excel in this fascinating field. So whether your future lies in the nutrition and wellness, health and fitness advisory, health food and supplement sales and marketing, health education or government policy, you can rest assured that you will inspire confidence.

** This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 3 (for international students)
- Falsafah & Isu Semasa
- University Life
- Integriti & Anti Rasuah (Integrity & Anti-Corruption)
- Extracurricular Learning Experience 1
- Introduction to Food Science
- Basic Food Preparation
- Principles of Nutrition
- Malaysian Experiential Tourism
- Microbiology
- Food and Beverage Management
- Nutrition, Food and Society
- Human Physiology
- Food Safety, Halal and Legislation

Free Elective (choose one)

- Fundamentals of Marketing
- Introduction to Public Speaking
- Entrepreneurship for Applied Sciences
- Food Microbiology
- Food Processing & Packaging

Field Elective (choose one)

- Principles of Health and Wellness
- Functional Food for Wellness
- Complementary and Alternative Therapies in Wellness
- Wellness for Healthy Aging

Year 2

- Extracurricular Learning Experience 2
- Sports Nutrition and Physical Activity
- Food Composition and Analysis
- Health Psychology
- Nutrition and Metabolism
- Food Security and Policy
- Nutrition and Health Promotion
- Nutritional Assessment
- Nutrition Education
- Research Methods and Data Analysis
- Co-Operative Placement I

Free Elective (choose one)

- Fundamentals of Marketing
- Introduction to Public Speaking
- One to One Marketing
- E-Marketing
- Entrepreneurship for Applied Sciences
- Food Microbiology
- Food Processing & Packaging

Field Elective (choose one)

- Principles of Health and Wellness
- Functional Food for Wellness
- Complementary and Alternative Therapies in Wellness
- Wellness for Healthy Aging

Year 3

- Extracurricular Learning Experience 3
- Seminar: Current topics in Nutrition and Wellness
- Basic Nutritional Epidemiology
- Nutritional Immunology and Genetics
- Diet and Diseases
- Principles of Wellness Coaching
- Community Project
- Final Year Project Paper 1
- Final Year Project Paper 2
- Final Year Project Paper 3
- Co-Operative Placement 2

Field Elective (choose one)

- Principles of Health and Wellness
- Functional Food for Wellness
- Complementary and Alternative Therapies in Wellness
- Wellness for Healthy Aging

International Degree Pathways

- **University of Queensland** (2+2)
  Bachelor of Science:
  Food Science and Nutrition major
  Food Technology major

Career Opportunities

Health and nutrition advisor | Nutrition educator | Public health nutritionist | Nutrition consultant or private practice | Nutrition executives (sales and marketing) | Nutrition and wellness coach | School nutritionists | Weight management nutritionist | Nutrition health expert (media) | Nutrition programme developer | Researcher or academic | Sports nutritionist

BSc (Hons) Aquatic Science

(R/620/6/0002) (10/2024) (MQA/FA4099)

Water covers more than 70% of the earth's surface. It is home to millions of aquatic species. And most importantly, it sustains human life. An invaluable resource must be managed responsibly and this programme was launched on this very basis. Addressing crucial issues in the aquatic ecosystem, the programme equips students with the know-how to develop solutions for an ever-changing planet.

You can look forward to developing a solid foundation in the basic sciences such as – analytical chemistry, microbiology, structural chemistry and statistics before delving into the intensive study of environmental monitoring and assessment, aquatic biodiversity and taxonomy, principles in aquatic pollution and toxicology, among many others. You will also enjoy two different avenues of specialisation in your final year where you will opt for Aquatic Health and Management or Seafood Processing and Safety. Research is also an important component of the programme and you will have the opportunity to focus on ecosystem-based management, natural resources management, sustainable aquaculture, as well as impact of modernisation on natural ecosystems.

Define yourself at UCSI and keep the world's most vital resource flowing.

** This programme received a 100% graduate employability score in the Ministry of Higher Education's Graduate Employability 2022 survey. (source: ge.mohe.gov.my/)*

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 3 (for international students)
- Falsafah & Isu Semasa
- University Life
- Integriti & Anti Rasuah (Integrity & Anti-Corruption)
- Extracurricular Learning Experience 1
- Biology
- Chemistry 1
- Chemistry 2
- Microbiology
- Structural Biochemistry
- Analytical Chemistry
- Co-Operative Placement 1
- Fundamentals of Management

Year 2

- Extracurricular Learning Experience 2
- Malaysian Experiential Tourism / Business Law - Malaysian Perspective
- Aquatic Biodiversity & Taxonomy
- Current Topics in Aquatic Science
- Ecology & Sustainability
- Business Communication
- Aquaculture Operation & Systems
- Entrepreneurship for Applied Sciences
- Aquatic Pollution & Toxicology
- Statistics and its Applications
- Research Methodology, Safety & Ethics
- Environmental Monitoring and Assessment
- Co-Operative Placement 2

Year 3

Aquatic Health and Management

- Extracurricular Learning Experience 3
- Aquatic Science Research Project 1
- Conservation and Management of Aquatic Resources
- Molecular Cell Biology
- Recombinant Technology
- Aquatic Science Research Project 2
- Water and Wastewater Engineering
- Tools for Aquatic Resource Management
- Aquatic Diseases and Diagnostics
- Aquatic Science Research Project 3
- Co-Operative Placement 3

Free elective (select 2)

- Strategic Management
- Seafood Industry
- Introduction to Internet Technologies
- Operations Management

International Degree Pathways

- **University of Queensland** (2+2)
  Bachelor of Science:
  Coastal and Ocean Science major
  Ecology and Conservation Biology major
  Marine Biology major

Career Opportunities

Consultant | Marine archaeologist | Hydrologist | Mangrove ecologist | Aquatic conservationist | Climatologist |Oceanographer | Underwater filmmaker | Work with the local fisheries department | Geoscientist | Marine mammal trainer | Marine park management

BSc (Hons) Forensic Science

(N/725/6/0102) (03/2027) (MQA/PA12112)

Applying scientific knowledge to practical applications, developing investigative and analytical skills in a variety of scenarios are some of the many areas the Forensic Science programme covers. This programme is designed to match the current career direction of this field, covering present-day topics and concepts, practical applications related to forensic science such as chemistry, biology, health science, psychology, management, entrepreneurship, crime scene investigation, and criminal law. The Forensic Science programme is taught by renowned academics and forensic scientists who are competent and experienced in various aspects of forensic fields including crime scene investigation, forensic chemistry, DNA profiling, forensic pathology, digital forensics, and criminal law. You will also be trained to develop your analytical skills so you are able to analyse any piece of evidence. Complemented by additional emphasis on the professional practice of the roles of the crime scene investigators, you can be assured that this is your pathway to become a forensic scientist of the highest caliber.

Subject Listing

Year 1

- Penghayatan Etika dan Peradaban (for local students) / Bahasa Komunikasi ` 3 (for international students)
- Falsafah dan Isu Semasa
- Chemistry For Applied Sciences
- Human Anatomy and Physiology
- Forensic Analytical Chemistry 1
- Cell Biology
- Chemistry 2
- Inorganic Chemistry 1
- Microbiology
- Physical Chemistry 1
- Introduction to Forensic Science
- Inorganic Chemistry 2
- Extracurricular Learning Experience 1

Free elective (choose one)

- Entrepreneurship for Applied Sciences
- Introduction to Internet Technologies
- Introduction to Biomaterials
- Bioinformatics
- Introduction to Public Speaking

Year 2

- Kursus Integriti dan Anti Rasuah
- University Life
- Business Law- Malaysian Perspective
- Forensic Biology
- Organic Chemistry 1
- Physical Chemistry 2
- Human Genetics
- Organic Chemistry 2
- Spectroscopy and Structural Chemistry
- Forensic Analytical Chemistry 2
- Forensic Anthropology
- Criminology and Forensic Psychology
- Extracurricular Learning Experience 2

Free elective (choose one)

- Entrepreneurship for Applied Sciences
- Introduction to Internet Technologies
- Introduction to Biomaterials
- Bioinformatics
- Introduction to Public Speaking

Year 3

- Research Methodology and Data Analysis
- Forensic Pathology
- Forensic DNA Profiling and Analysis
- Material and Polymer Chemistry
- Fire Investigation
- Criminal Law
- Ballistics and Explosive
- Forensic Final Year Project A
- Forensic Cooperative Placement 1
- Extracurricular Learning Experience 3
- Elective I

Year 4

- Forensic Environmental Chemistry
- Drug and Medicinal Chemistry
- Digital Forensics
- Forensic Final Year Project B
- Forensic Final Year Project C
- Forensic Cooperative Placement 2
- Elective II

Electives (Choose 2 out of 5)

- Introduction to Public Speaking
- Introduction to Internet Technologies
- Entrepreneurship for Applied Sciences
- Introduction to Biomaterials
- Bioinformatics

International Degree Pathways

- **University of Queensland** (2+2)
  Bachelor of Science:
  Genetics major
  Chemistry major

Career Opportunities

Forensic scientist | Forensic document examiner | Crime scene investigator | Blood pattern analyst | Scientific officer | Chemist | Cyber forensic incident response officer | Forensic and integrity officer/consultant | Insurance adjuster | Occupational safety officer | Private investigator | Lecturer | Researcher

BSc (Hons) Applied Microbiology

(N/421/6/0059) (09/2026) (MQA/PA 14527)

A microbiologist is a scientist who studies microscopic life forms and processes. This includes study of the growth, interactions and characteristics of microscopic organisms such as bacteria, algae, fungi, and some types of parasites and their vectors. Microbiology essentially overlaps with other areas of biology such as genetics, molecular biology and immunology. Careers in this field are aplenty as you could venture a rewarding career in healthcare, environment, food and beverage, petroleum, pharmaceutical, biotechnology, forensic science, research, and the academia. As one of the pioneers in teaching applied sciences in Malaysia, the Faculty of Applied Sciences has a reputation of producing quality graduates with over 95% of its lecturers at PhD holders.

Subject Listing

Year 1

- Penghayatan Etika & Peradaban (for local students) / Bahasa Komunikasi 3 (for international students)
- Falsafah & Isu Semasa
- University Life
- Integriti & Anti Rasuah (Integrity & Anti-Corruption)
- Extracurricular Learning Experience 1
- Chemistry For Applied Sciences
- Biomolecular Structure and Function
- Fundamental Techniques in Applied Sciences
- Human Anatomy and Physiology
- Microbiology
- Immunology
- Co-Operative Placement 1

Elective 1 (Choose one)

- Fundamentals of Marketing
- Introduction to Public Speaking
- Introduction to Programming

Elective 2 (Choose two)

- Environmental Monitoring and Assessment
- Ecology and Sustainability
- Introduction to Biomaterials
- Food Safety and Quality System

Year 2

- Extracurricular Learning Experience 2
- IP Rights and Biosafety
- Microbial Genetics
- Analytical Chemistry
- Food Microbiology
- Research Methods and Data Analysis
- Bioinformatics
- Biocatalyst and Biosensors
- Tools in Genetic Engineering
- Co-Operative Placement 2

Elective 3 (Choose one)

- Environmental Monitoring and Assessment
- Ecology and Sustainability
- Introduction to Biomaterials
- Food Safety and Quality System

Year 3

- Bioeconomy and Commercialisation
- Agricultural Microbiology
- Environmental Microbiology
- Industrial Microbiology
- Medical Microbiology
- Pharmaceutical Microbiology
- Current Topics in Microbiology
- Extra-curricular Learning Experience 3
- Applied Microbiology Research Project 1
- Applied Microbiology Research Project 2
- Applied Microbiology Research Project 3
- Co-Operative Placement 3

International Degree Pathways

- **University of Queensland** (2+2)
  Bachelor of Science:
  Cell Biology majors
  Genetics majors

- **University of Queensland** (2+2)
  Bachelor of Biotechnology:
  Molecular and Microbial Biotechnology Extended Major

Career Opportunities

Science officer | Research officer | Quality control officer | Laboratory executive or quality controller | Food manufacturer healthcare personnel | Academician and environment manager | Research and development scientist | Clinical trials coordinator | Biomedical product marketing | Drug discovery and development | Water authorities | Environmental management | Biomedical personnel | Biotechnologist | Science journalist | Process control specialist

Hall Of Fame

LEE YEE JEAT
Alumna, BSc (Hons) Nutrition with Wellness

Full scholarship recipient and a Dean's list student for eight semesters. Received the ICOMES Good Abstracts Awards in 2020 for her outstanding abstracts submitted at the 2020 International Congress on Obesity and Metabolic Syndrome (ICOMES) online conference.

YVONNE AERUTHAYAN
Alumna, BSc (Hons) Nutrition with Wellness

A scholar for the Global UGRAD programme at Kansas State University, United States of America and Director of Alumni Relations, Kansas State University Asian American Student Union Graduate Council in 2020.

CYNTHIA NEO WEN XUAN
Current student of BSc (Hons.) Food Science with Nutrition

Leader of the second runner-up team in the 17th ASEAN Food Bowl Quiz.
Leader of the national champion team in the 13th MIFT Food Bowl Quiz Competition.
National Top Scorer in the 13th MIFT Food Bowl Quiz Competition.
Champion team of the UCSI FAS Innovative Food Product Development Competition 2023.
Recipient of the UCSI Trust Scholarship 2022 and the UCSI University Trust Education Grant 2020.
Dean's Honour List from 2021 to 2023.

ALEXANDER CORNEILIUS
Alumnus, BSc (Hons) Biotechnology

Recipient of the Gold Medal International Putra InnoCreative Poster Competition (IPIPC) (poster competition) at the International Putra InnoCreative Carnival in Teaching & Learning (IPICTL) 2020. Co-founder of Fitness Grub, a health-based company.

JOEL PHUA JIA MENG
Alumnus, BSc (Hons) Biotechnology

Attached for the Undergraduate Research Project (2019-2020) with Harvard Medical School.

THO GABRIELLE NGO
Alumna, BSc (Hons) Food Science with Nutrition

Winner of the Climate Action Video Competition, Cambridge Zero Climate Change Festival 2020

KIRTHANI ANAMALAY
Alumna, BSc (Hons) Food Science with Nutrition

Bagged silver for best oral presentation at International E-conference on biotechnology, bioinformatics and biomedicine 2020

MAK WEN SHEAN
Alumna, BSc (Hons) Nutrition with Wellness

Kuok Foundation Study Award 2020 recipient

Illustrious Alumni

DEVANDAREN GANESAN

Managing Director, Malayan Food Venture (MFV)

BSc (Food Science with Nutrition)
Graduated 2015

1. Tell us about your achievement

I learnt and focused on different areas of specialisation over the years from Sales and Marketing to Research and Development. With the knowledge I have obtained, I ventured into initiating my own food manufacturing start-up, called Malayan Food Venture (MFV), with my siblings. We managed to manufacture Fast Moving Consumer Goods (FMCG) and established Home brands such as Trevor's, Rasto, Algeris and Dilon. All these brands cater specifically for its own kind of market. Our products are being sold in over 2500 retails outlets throughout Malaysia and at major hypermarkets.

2. How has UCSI helped you in your endeavour?

Honestly, I was just an average student. I believe in practicality and the application of theory to practice. The Faculty of Applied Sciences at UCSI fascinated me when I was taught of the way science came to play in food. As an undergraduate student, I was essentially taught of the principles of staying focus, determination and being positive regardless of the outcome of your experience. And these aspects help shape the person I am today.

3. What would you advise your juniors at UCSI?

UCSI is your launchpad to greater aspects of life. UCSI's 3 years programme equips students with a broad spectrum of knowledge related to Food Sciences and Nutrition. The Food Industry Visit, Internship and Food Innovation competition are some of the programmes that will sharpen your skills needed to futureproof yourself. So ask as many questions as you can and try to grasp as much as you can from the knowledgeable lecturers from the faculty.

WONG LOK YEE

Nutritional Executive under Dutch Lady Milk Industries Berhad

BSc (Food Science with Nutrition)
Graduated 2018

1. Tell us about your achievement

I completed my final year project on Microencapsulation of

Probiotic and successfully published my research paper afterwards. I have carried out a research project under the supervision of a Professor from National Ilan University, Taiwan. Now I am working as a Nutritional Executive with Dutch Lady Milk Industries Berhad. My job scope, among others, is to provide nutritional information to Health Care Professionals and organise

2. How has UCSI helped you in your endeavour?

I am glad that I selected UCSI to pursue my degree studies as UCSI offers a conducive study environment and the lecturers have been nothing short of exceptional. I have gained sufficient knowledge in my field of study and managed to acquire laboratory skills which assisted me in completing my studies and my research project.

3. What would you advise your juniors at UCSI?

UCSI is definitely a good platform to understand the working environment. The academics are experts in their own field with sufficient knowledge of the industry. I would suggest not to just focus on studies but also to join more extracurricular activities at UCSI because there are a lot of learning opportunities. Soft skills such as communication, presentation and leadership skills are essential elements when you step out to the working world.

KUMAR VEERAPEN, PhD

Research Fellow.
Hail Support and Community Outreach Manager.
Affiliations:

- *Analytic and Translational Genetics Unit, Center for Genomic Medicine, Massachusetts General Hospital, Boston, Massachusetts, USA*
- *Stanley Center for Psychiatric Genetics, The Broad Institute of MIT and Harvard, Cambridge, Massachusetts, USA*
- *Harvard Medical School, Boston, Massachusetts, USA*

BSc (Biotechnology) Graduated 2009

1. Tell us about your achievement

One of my greatest achievements was to obtain my PhD in human genetics from the University of Miami. It has always been a passion of mine since I was 14 years old to gain the expertise in analysing genetic data. Through the training provided to me from UCSI and the University of Miami, I then secured my position at the Broad Institute of MIT and Harvard and the Massachusetts General Hospital as a research fellow and outreach manager for Hail as a genomics analysis tool.

2. How has UCSI helped you in your endeavour?

Most of the things that I learned during my undergraduate degree has transitioned with me through the following stages in my career where I first was a tutor at UCSI for 2 years, graduate student at the University of Miami for 5 years, and finally, my current position since July 2016. Many of the skills that I learned honed into my interest in science and cultivated an incredible thirst for answers. I had amazing lecturers who constantly allowed me to question everything which is a quality that makes a stupendous scientist.

3. What would you advise your juniors at UCSI?

The amazing thing about UCSI is the praxis method that has always been a major advantage of our graduates over graduates from other schools – our students have a good grasp on the theoretical aspects of science while also given the practical applications of these knowledge. Therefore you are enrolling into a school that will not churn out robots but rather a school that feeds into your potential as an individual and fuels you for eventual success.

Illustrious Alumni

YAU MEI YUEN

General Manager, Bio Life Neutraceuticals Sdn Bhd

BSc (Hons) Food Science & Nutrition, graduated 2015

1. Tell us about your achievement

I did my internship at Bio Life Neutraceuticals, an OEM health food supplement company. From just an intern in the quality control department, I rose the ranks to become the General Manager at Bio Life within five years. Today, I manage departments in production, quality assurance, quality control, research and development, sales and marketing and purchasing, among others.

2. How has UCSI helped you in your endeavour?

It's indeed an honour to study at UCSI University. The Food Science and Nutrition programme is well-known and many companies view the university as an established higher learning institution that provides education excellence. This translated to the confidence Bio Life had in me when I joined as an intern. UCSI and this programme have immensely helped in my career.

3. What would you advise your juniors at UCSI?

If you give me a second chance, I will still choose UCSI. It is where I found the joy of learning with my lecturers and fellow course mates. The education system makes me feel comfortable, the environment is conducive and the location is strategic.

JOKO LOGIS (INDONESIAN)

Support Specialist (APAC Region), BMG Labtech (Australia)

BSc (Hons) Biotechnology, graduated 2014
MSc Applied Sciences, graduated 2017

1. Tell us about your achievement

My first job following graduation from UCSI with a Master's degree was with Progene Link Sdn Bhd, an innovative local company that focuses to service Biotechnology and Nanotechnology researchers in Malaysia. This is indeed an achievement, given that I did my internship here prior to my Master's studies. In other words, UCSI helps futureproof its students.

2. How has UCSI helped you in your endeavour?

UCSI had helped me greatly during my undergraduate and postgraduate studies. I'm lucky and grateful to have found many lecturers and faculty staff members that were always willing to help me. Special mention goes to the Deputy Dean of the Faculty of Applied Sciences, the amazing Dr Crystale, who was my supervisor during my undergraduate and Master's studies.

3. What would you advise your juniors at UCSI?

Education is important, but do remember to have fun as well. Part of the university experience is making new friends and inculcating a love for various recreational activities. Go and join the myriad of clubs available in UCSI. You will then graduate with not just a certificate and knowledge that came with it, but also with an experience that will last forever.

Facilities

The Faculty of Applied Sciences is Malaysia's leading private hub for scientific studies since 1999. Its cutting-edge labs and facilities have played an integral part in research and in assisting students make great strides in various scientific discovery.

The wet and dry aquatic labs are equipped with aquarium tanks to home jellyfish and seahorses.

This facility houses a wide range of instruments used to determine the physiochemical properties and sensory characteristics of food.

This facility is equipped with advanced imaging technology that enables researchers to visualise the cell growth and condition.

It houses all the bacterial and fungal cultures used in research and teaching that supports cutting-edge research in the areas of drug discovery, environmental health and more.

This facility supports the analysis of biochemical enzymes, as well as organic and inorganic molecules to identify and separate components within natural and artificial materials.

Used for plant-related research, this lab is equipped with the latest research instruments including high-end liquid and gas chromatographs and microencapsulator.

Academic Requirements

QUALIFICATIONS	FOUNDATION IN SCIENCE	DIPLOMA IN AQUACULTURE WITH ENTREPRENEURSHIP
SPM/O-Level/equivalent	Minimum 5 credits (inclusive 1 Mathematics and 1 Science subject)	Minimum 3 credits (inclusive of Mathematics and 1 Science subject)
UEC	Minimum Grade B in 3 subjects (inclusive of Mathematics and 1 Science subject)	Minimum Grade B in 3 subjects (inclusive of Mathematics and 1 Science subject)
Other qualifications/ Polytechnic certificates authorised by Malaysian government	Admission on a case-by-case basis	Admission on a case-by-case basis
English requirement	*Refer to page 6*	Local Students MUET - Band 2; SPM English - Grade B+; UEC English Language - Grade A2; TOEFL IBT - 30-31; IELTS - 4.0; 1119/O-Level/IGCSE - Grade C; Cambridge English Qualification Test / Linguaskill - 140; Pearson Test - 36; CEFR - B1 (with at least 2 skill at B1) International Students MUET - Band 3; CEFR - B1 (High B1); IELTS - Band 5.0; TOEFL IBT - 35 – 45; Cambridge Linguaskill - 150; 1119/O-Level/IGCSE - Grade C

QUALIFICATIONS	BSC (HONS) BIOTECHNOLOGY	BSC (HONS) FOOD SCIENCE WITH NUTRITION	BSC (HONS) AQUATIC SCIENCE	BSC (HONS) NUTRITION WITH WELLNESS	BSC (HONS) FORENSIC SCIENCE	BSC (HONS) APPLIED MICROBIOLOGY
UCSI Foundation in Science or equiavlent in Malaysia	Minimum CGPA 2.00 and Possess SPM with three credits inclusive of Mathematics and one science subject	Minimum CGPA 2.00, inclusive of: · Chemistry · Biology/Physics/ Mathematics	Minimum CGPA 2.00	Minimum GPAs of 2.33 in ANY TWO : · Chemistry · Biology · Physics/ Mathematics	Minimum CGPA 2.50, inclusive of minimum GPAs of 2.50 in: · Chemistry · Biology/Physics and *Additional requirement	Minimum CGPA 2.00 and Possess SPM with three credits inclusive of Mathematics and one science subject
National Matriculation	Minimum CGPA 2.00 and Possess SPM with three credits inclusive of Mathematics and one science subject	Minimum CGPA 2.00, inclusive of: · Chemistry · Biology/Physics/ Mathematics	Minimum CGPA 2.80, inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum GPAs of 2.33, in ANY TWO: · Chemistry · Biology · Physics/Mathematics	Minimum CGPA 2.50, inclusive of minimum GPAs of 2.50 in: · Chemistry · Biology/Physics and *Additional requirement	Minimum CGPA 2.00 and Possess SPM with three credits inclusive of Mathematics and one science subject
STPM	Minimum GPA 2.00 in any Two (2) subjects and Possess SPM with 3 credits inclusive of Mathematics and one science subject	Minimum CGPA 2.00, inclusive of Grade Cs in: · Chemistry · Biology/Physics/ Mathematics	Minimum CGPA 2.00, inclusive of Grade Cs in: · Chemistry · Biology · Physics/ Mathematics	Minimum GPAs of 2.33, in ANY TWO: · Chemistry · Biology · Physics/ Mathematics	Minimum CGPA 2.50, inclusive of minimum GPAs of 2.50 in: · Chemistry · Biology/Physics and *Additional requirement	Minimum GPA 2.00 in any Two (2) subjects and Possess SPM with 3 credits inclusive of Mathematics and one science subject
UEC	Minimum of Grade B in 5 subjects, inclusive of: · Mathematics · one science subject or Minimum Grade B in 5 subjects and SPM with 3 credits inclusive of Mathematics and one science subject	Minimum Grade B in five (5) subjects, inclusive of: · Chemistry · Biology · Mathematics/Physics	Minimum Grade B in 5 subjects, inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum Grade B in 5 subjects, inclusive of ANY TWO subjects: · Chemistry · Biology · Physics/Mathematics	Minimum Grade B in 5 subjects, inclusive of: · Chemistry · Biology/Physics	Minimum grade B in FIVE subjects inclusive of: · Chemistry · Biology · Physics/Mathematics and pass SPM or equivalent
A- Levels	Minimum Grade D in any 2 subjects and SPM with 3 credits inclusive of Mathematics and one science subject	Minimum Grade E in: · Chemistry · Biology/Physics/ Mathematics	Minimum Grade D in ANY TWO: · Chemistry · Biology · Physics/ Mathematics	Minimum Grade D in ANY TWO: · Chemistry · Biology · Physics/ Mathematics	Minimum Grade D in: · Chemistry · Biology/Physics *Additional requirement	Minimum Grade C (GPA 2.00) in any 2 subjects, and possess 0-Level with 3 credits inclusive of Mathematics and one science subject
Australian High/ Secondary School Diploma (Grade 12) - SAM/AUSMAT/SACE/ TEE//NTCE/WACE	Minimum ATAR 60% or minimum 60% average in five (5) subjects inclusive of: · Mathematics · One Science subject	Minimum ATAR 60% or minimum 60% average in five (5) subjects inclusive of: · Chemistry · Biology/Physics/ Mathematics	Minimum ATAR 60% or minimum 60% average five (5) subjects inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum ATAR 60% or minimum 60% average five (5) subjects inclusive of: · Chemistry · Biology · Physics/Mathematics	Minimum ATAR 60% or minimum 60% in 5 subjects inclusive: · Chemistry · Biology/Physics	Minimum ATAR 60% or minimum 60% average in five (5) subjects inclusive of: · Chemistry · Biology · Physics/ Mathematics
Canadian Grade 12 - CPU/CIMP	Minimum 60% in 6 subjects inclusive of · Mathematics · one science subject	Minimum average of 60% in 6 subjects inclusive of: · Chemistry · Biology/Physics/ Mathematics	Minimum average of 60% in 6 subjects inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum average of 60% in 6 subjects inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum average of 60% in 6 subjects inclusive of: · Chemistry · Biology/Physics	Pass with minimum mark of 60% inclusive of: · Chemistry · Biology · Physics/Mathematics and pass SPM or equivalent
International Baccalaureate (IB)	Minimum score of 26/42 from 6 subjects inclusive of · Mathematics · one science subject	Minimum score of 26/42 from 6 subjects inclusive of · Chemistry · Biology/Physics/ Mathematics	Minimum score of 26/42 from six (6) subjects, inclusive of: · Chemistry · Biology · Physics/Mathematics	Minimum score of 26/42 from 6 subjects, inclusive of: · Chemistry · Biology · Physics/ Mathematics	Minimum score of 26/42 from six (6) subjects, inclusive of: · Chemistry · Biology/ Physics	Minimum score of 26/42 from 6 subjects, inclusive of: · Chemistry · Biology · Physics/Mathematics

Academic Requirements

QUALIFICATIONS	BSC (HONS) BIOTECHNOLOGY	BSC (HONS) FOOD SCIENCE WITH NUTRITION	BSC (HONS) AQUATIC SCIENCE	BSC (HONS) NUTRITION WITH WELLNESS	BSC (HONS) FORENSIC SCIENCE	BSC (HONS) APPLIED MICROBIOLOGY
Diploma/ Advanced Diploma	Minimum CGPA 2.0	Minimum CGPA 2.00, inclusive of: · Chemistry · Biology/ Physics/ Mathematics	Minimum CGPA 2.00, inclusive of: · Chemistry · Biology · Physic/ Mathematics	Minimum CGPA 2.75 in a related diploma from recognised institutions OR CGPA below 2.75 (above 2.00) in a related diploma from recognised institutions plus a minimum of 36 months working experience in the same field.	Minimum CGPA 2.75 in a related diploma from recognised institutions OR CGPA below 2.75 (above 2.00) in a related diploma from recognised institutions and a minimum of 36 months working experience in the same field.	Minimum CGPA 2.0
Other qualifications recognised by the Malaysian government	Admission: Case by case basis					

**Additional requirement: 5Cs or equivalent in SPM/equivalent, 3Cs of which must be in Biology / Physics / Mathematics / Chemistry / English.*

English Language Requirements

STUDENTS (LOCAL/ INTERNATIONAL)	QUALIFICATIONS	BSC (HONS) BIOTECHNOLOGY BSC (HONS) FOOD SCIENCE WITH NUTRITION BSC (HONS) AQUATIC SCIENCE BSC (HONS) APPLIED MICROBIOLOGY	BSC (HONS) FORENSIC SCIENCE	BSC (HONS) NUTRITION WITH WELLNESS
Local Students	SPM English Language	Minimum grade of B+	N/A	N/A
	CEFR	Low B1	Low B1	Low B1
	English language 1119/0-Level English/ IGCSE	Minimum grade of C	N/A	N/A
	UEC English Language	Minimum grade of A2	N/A	N/A
	MUET (Malaysian University English Test)	Band 3	Band 3	Band 3
	IELTS	N/A	Score of 5.5	Score of 5.5
	TOEFL	N/A	Minimum Score of 550	Minimum Score of 550
	Note: In the event that the English language requirements are not met, applicants will be required to take the Basic English and English Foundation for in-sessional academic enhancement concurrently with the programmes. It is applicable to Diploma Aquaculture with Entrepreneurship, BSc (Hons) Biotechnology, BSc (Hons) Aquatic Science, BSc (Hons) Food Science with Nutrition, BSc (Hons) Applied Microbiology.			
International Students	MUET (Malaysian University English Test)	Band 3	Band 4	Band 3
	CEFR	Low B1	Low B2	Low B1
	IELTS	Score of 5	Score of 6	Score of 5.5
	TOEFL iBT	Minimum Score of 42	Minimum Score of 60	Minimum Score of 46
	Pearson Test of English	Minimum Score of 47	Minimum Score of 59	Minimum Score of 51
	Cambridge English Qualification and Tests	Minimum Score of 154	Minimum Score of 169	Minimum Score of 160
	Cambridge Linguaskill	Minimum Score of 154	N/A	N/A
	TOEFL PBT	N/A	550	N/A
	Note: International applicants who do not meet the respective academic programme's English Language Requirement will need to improve their proficiency by enrolling into the English for Tertiary Education programme (R/KJP/00920-00929) which helps them prepare for attaining a required band score. It is applicable to Diploma Aquaculture with Entrepreneurship, BSc (Hons) Biotechnology, BSc (Hons) Aquatic Science, BSc (Hons) Food Science with Nutrition, BSc (Hons) Applied Microbiology.			

While the above information is accurate at the time of printing, please note that entry requirements are subject to change. Please visit the university website for the most updated information.

UCSI University®

UCSI EDUCATION SDN BHD [198901008177 (185479-U)]

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