



BIOTECHNOLOGY & LIFE SCIENCES



E-BROCHURE & MORE!
SCAN HERE



MARKING 40 YEARS OF EDUCATION EXCELLENCE

For four decades, INTI has been a trusted name in higher education, empowering generations of learners through academic excellence, innovation, and global engagement. In 2026, we mark 40 years of transforming lives and shaping futures through future-focused, high-quality education.

“With over 40 years of experience, we remain committed to driving change and preparing graduates with the mindset, skills, and agility to lead and shape the future.”



Dr Chong Kok Wai
Chief Executive Officer
INTI International University & Colleges

YOUR FUTURE BUILT TODAY

With decades of experience and a strong reputation in education, INTI remains committed to innovation and the delivery of future-focused learning. Our curriculum integrates academic rigour with practical relevance, equipping students to excel in a rapidly evolving global landscape. Through digital advancement, industry engagement, and international collaboration, INTI nurtures confident and adaptable graduates – prepared to lead, adapt, and contribute meaningfully across borders and industries.

Let's get started - your journey begins with us.



ACHIEVEMENTS AND RECOGNITION

4

Campuses
Nationwide

95,000+

Graduates

16,000+

Students

#509

In the World



#170

In Asia



QS “Rising Star”
Award 2025



Malaysia's Best
Higher Education
Group Award 2025



Educoop (Koperasi
Pendidikan Swasta
Malaysia Berhad)

WINNER
Excellence Award:
Internal Quality Assurance
MQA Awards 2025



Award is for Subang campus

Employers' Choice
Award 2025

Talentbank's National Graduate
Employability Index (GE Index)



WHY INTI?



1000+ Industry Partners

INTI collaborates with more than 1000 industry partners including local and global organisations such as IBM, Google, FedEx, Shell, Unilever, Intel, Microsoft, Huawei, SAS, DELL and more.



100% Internship Placement

Good academic results are no longer sufficient to ensure the employability of students, therefore work experience in the form of internships is steadily becoming more important.



3000+ World Class Employer Projects

More than 3000 world class employer projects since 2010



Broad Range of Innovative Programmes

Accredited by the Malaysian Ministry of Education, INTI offers a wide range of innovative programmes from Pre-University to Postgraduate programmes.



Career Development

INTI Leadership Series - One of INTI's signature events that features top leaders from highly successful companies speaking to INTI students on topics related to leadership, innovation, entrepreneurship and strategies relevant to today's business.



Beyond Academic

INTI provides an enriching experience that enables students to find their true passion through on-campus events and activities organised by numerous clubs and societies. Through these activities, students are able to enhance their soft skills and talents.



Vibrant Community

Immerse yourself in a diverse and vibrant international community of over 16,000 students from 100+ countries.



World-Class Facilities

Experience unparalleled learning and growth in our signature world-class facilities and enjoy top-notch sports and recreational amenities for your well-being.

SUCCEED GLOBALLY WITH THE INTI EDGE

THE **INTI**
EDGE



We Are INTERNATIONAL

Our internationally recognised education will enrich you with the right skills and attributes to excel at whatever you do and wherever you go.

WORLD RENOWNED COLLABORATIONS WITH PRESTIGIOUS UNIVERSITIES

INTI offers exclusive franchise degrees and dual award degree programs in partnership with some of the world's highest-rated universities. These partnerships enhance your academic credentials and provide access to prestigious institutions of higher learning globally. With opportunities to learn from international lecturers, participate in joint projects, and embark on international study tours, you will gain a truly global educational experience.

Coventry University

University of Hertfordshire UH

Sheffield Hallam University
Knowledge Applied

Southern New Hampshire University

SWINBURNE UNIVERSITY OF TECHNOLOGY

CY CERGY PARIS UNIVERSITÉ

AUSTRALIA



INNOVATIVE Teaching & Learning

INTI integrates an array of proven approaches to teaching combined with revolutionary applications of technology in the classroom such as the innovative Canvas Learning Management System.



INTI uses Canvas as our Learning Management System (LMS), providing customizable tools to enhance teaching and learning for students and lecturers. This user-friendly platform supports collaborative digital learning environments, fostering a holistic educational experience.

Canvas's robust features — such as Rubrics, Modules, Calendars, Quizzes, Syllabi, Discussions, Analytics, and SpeedGrader — enable instructors to provide dynamic and personalized learning experiences. The integration of Turnitin with the AI Detector feature helps maintain academic integrity and ensures high-quality educational delivery.

INTI collaborates with industry partners like IBM, AWS, LGMS, SAS and Alibaba GDT to integrate industry content into the curriculum. This enriches course content, enhances learning outcomes, and makes education more engaging and practical.



INDIVIDUAL Development

INTI endeavours to include practical experiences in every programme it offers. From practical workshops taught by local and international guest lecturers and industry practitioners who share the ins and outs of the working world, to hands-on practical projects initiated by potential employers.



EMPLOYER PROJECTS
Real-World Experience



INTI LEADERSHIP SERIES
Expert Insights



INDUSTRY GUEST LECTURES
Professional Perspectives



BOOTCAMPs
Intensive Training



DESIGN THINKING MENTORSHIPS
Innovative Guidance

DRIVING SUCCESS THROUGH INDUSTRY COLLABORATION

Over the years, INTI has built powerful collaborations with leading multinational corporations and major local organisations across diverse platforms. These partnerships drive innovative curricula, enrich classroom learning with real-world insights, and ensure our students develop into future-ready graduates. Through these strong industry connections, our students gain access to:

- Industry Awards / Scholarships
- Employer Projects
- Boot Camps and Career Workshops
- INTI Leadership Series
- Faculty Industry Attachments
- Coaching and Mentoring
- Industry Advisory Boards
- Industry Skills Certifications
- Employer Centric Curricula
- Internships and Job Placements

These initiatives ensure our graduates gain the skills, confidence, and job readiness employers demand.

Employer's Choice of University Award

Graduate employability is at the core of what we do. Our close industry ties and job-focused training make INTI a preferred source of talent, earning us the Employer's Choice of University Award by Talentbank's Graduate Employability (GE) Index for two consecutive years – **2024 and 2025**.



Our graduates are highly sought after. We prepare them to become world and future-ready professionals, equipped with the skills employers value most and the ability to contribute effectively in the workplace.



Our Industry Partners:



and many more

DISCOVER THE NEXT BIG BREAKTHROUGH

One of the most exciting areas of scientific research, biotechnology is the in-depth study and mastery of all aspects of living organisms down to the cellular level and the knowledge of how to derive and apply useful applications from organic systems to resolve all manner of problems across multiple fields of human endeavour.

Biotechnology graduates are able to contribute their talents across a diverse scope of industries ranging from manufacturing, the service industry and even environmental management. In medicine, an INTI Biotechnology and Life Sciences graduate is able to participate in the production of antibiotics and vaccines to cure diseases.



In agriculture, graduates are able to contribute by helping to genetically engineer and create more resilient, better crops and livestock to resolve food shortages. In forensics, INTI biotechnologists are able to assist with a detailed analysis of genetic material samples collected at crime scenes.

A rigorous industry-relevant curriculum along with extensive opportunities for internship programmes with the world's leading biotechnology and molecular bioscience companies ensures that graduates remain at the forefront of the latest developments with exceptional employability. Make your mark and contribute to science and humanity in a meaningful way.

INDUSTRY CONNECTIONS AND NETWORKING

Learn directly and gain real-world knowledge from the industry. Our strong partnerships with businesses and employers offer you the opportunities to take part in Employer Projects and field trips, all of which will stand you in good stead when you graduate. At INTI, it is simply more than just studying life under a microscope as we will get you ready for the working world.

CAREER-READY INTERNSHIP PROGRAMME

Partnering with biotechnology and molecular bioscience companies, we provide you with an excellent opportunity to put all your theoretical knowledge and laboratory skills to good use, and acquaint yourself with the industry's stringent requirements hence, boosting your employability.

ELEVATE YOUR EDUCATION EXPERIENCE

If you pursue an Australian Degree Transfer Programme (Science) or Bachelor of Biotechnology (Hons), you can choose to transfer to a reputable, highly-ranked university in Australia, such as The University of Adelaide and The University of Queensland.

PROVEN RECORD OF EXCELLENCE

Our Australian Degree Transfer Programme has been consistently successful in producing First-Class and Upper Second-class degree holders in the field of Biotechnology and Life Sciences. On hand to guide you to your success is a team of academicians and industry professionals who are highly dedicated and experienced.

MAJOR DISCIPLINES

MEDICAL BIOTECHNOLOGY

Medical biotechnology refers to the application of biological principles and technologies to develop innovative medical products, therapeutic methods, and technologies for the diagnosis, prevention, and treatment of diseases. It encompasses key areas such as genetic engineering, monoclonal antibody production, vaccine development, gene therapy, and regenerative medicine. The primary goal is to enhance clinical outcomes and advance personalised medicine. This field offers diverse career pathways, including biomedical researchers, biopharmaceutical scientists, genetic counsellors, medical laboratory technologists, regulatory affairs managers, tissue engineering specialists, and drug development consultants

AGRICULTURAL BIOTECHNOLOGY

Agricultural biotechnology applies advanced tools and techniques such as genetic engineering, molecular markers, tissue culture, and microbial technology to improve plants, animals, and microorganisms. The aim is to increase agricultural productivity, enhance crop quality, strengthen resistance to pests and diseases, and reduce environmental impacts. This field addresses global issues such as food security, sustainable agriculture, and environmental conservation. Career paths include agricultural biotechnology specialists, bioinformatics experts, microbial biotechnology specialists, regulatory affairs officers, agricultural consultants, environmental biotechnology experts, food scientists, seed technology specialists, and biotechnology product managers. These professionals are engaged in the research, development, regulation, and commercialisation of biotechnological solutions to meet agricultural challenges and improve global food systems.

ENVIRONMENTAL BIOTECHNOLOGY

Environmental biotechnology involves the use of biological systems, organisms, or processes to develop technologies and solutions for environmental protection, pollution control, waste management, and sustainable resource utilisation. It is grounded in disciplines such as microbiology, molecular biology, and biochemistry and aims to address issues like water and air pollution, soil degradation, and climate change to create a cleaner and more sustainable ecological environment. Career opportunities in this field include environmental biotechnology specialists, bioremediation experts, wastewater treatment engineers, microbial ecologists, bioenergy researchers, sustainability managers, and bioplastic developers.

INDUSTRIAL BIOTECHNOLOGY

Industrial biotechnology, also known as white biotechnology, utilises microorganisms, enzymes, and biological processes to sustainably and environmentally produce and optimise industrial products, materials, and energy. Key areas include the development of biofuels, biodegradable plastics, enzyme engineering, and bio-based chemicals. The goal is to reduce dependence on fossil fuels, minimise environmental impacts, and promote the circular economy. Career opportunities in this sector include bioprocess engineers, biofuel researchers, bioplastic developers, industrial microbiologists, fermentation experts, sustainability consultants, and bio-based product managers. These professionals focus on designing and implementing biotechnological solutions to improve industrial efficiency and provide sustainable alternatives to traditional industrial practices.

PRESTIGIOUS PARTNER UNIVERSITIES

Via extensive agreements with some of the most renowned universities, students may electively transfer their credits and complete their course overseas which hosts some of the world's institutions at the forefront of research in biotechnology and molecular science. These partner universities are consistently ranked among the top universities worldwide by The Times Higher Education along with the rigorously assessed QS World University Rankings.



THE UNIVERSITY OF ADELAIDE

The School of Biological Sciences, The University of Adelaide was formed in 2015 to coordinate and consolidate the University's cutting edge and world-class research and teaching in Ecology & Environmental Science; Genetics & Evolution; and Molecular & Cellular Biology. The School has in excess of 600 people in research, teaching and support staff, postgraduates and honours students. World-class research and teaching is conducted in the School of Biological Sciences which covers a range of subject matter notable in its breadth and scale.



THE UNIVERSITY OF QUEENSLAND

The University of Queensland understands that academic interests are as diverse as their students. They provide choices to give you flexibility in your learning process. Offering a breadth of study that leads the way in Australia, you can choose a degree to match your interests, passions and career goals.



UNIVERSITY OF LEEDS

The Faculty of Biological Sciences at the University of Leeds have a long-established reputation in delivering research-led student education with a strong suite of programmes covering biological sciences with a continued portfolio development being informed by an active Industrial Advisory Board. Our teaching and research are delivered via three Schools - School of Biology, School of Biomedical Sciences and School of Molecular and Cellular Biology. We are a leading faculty within the life sciences in terms of our research power, subject diversity and interdisciplinarity, for example, through our contributions to the internationally renowned Astbury Centre, medical research and emerging Global Food and Environment Institute.

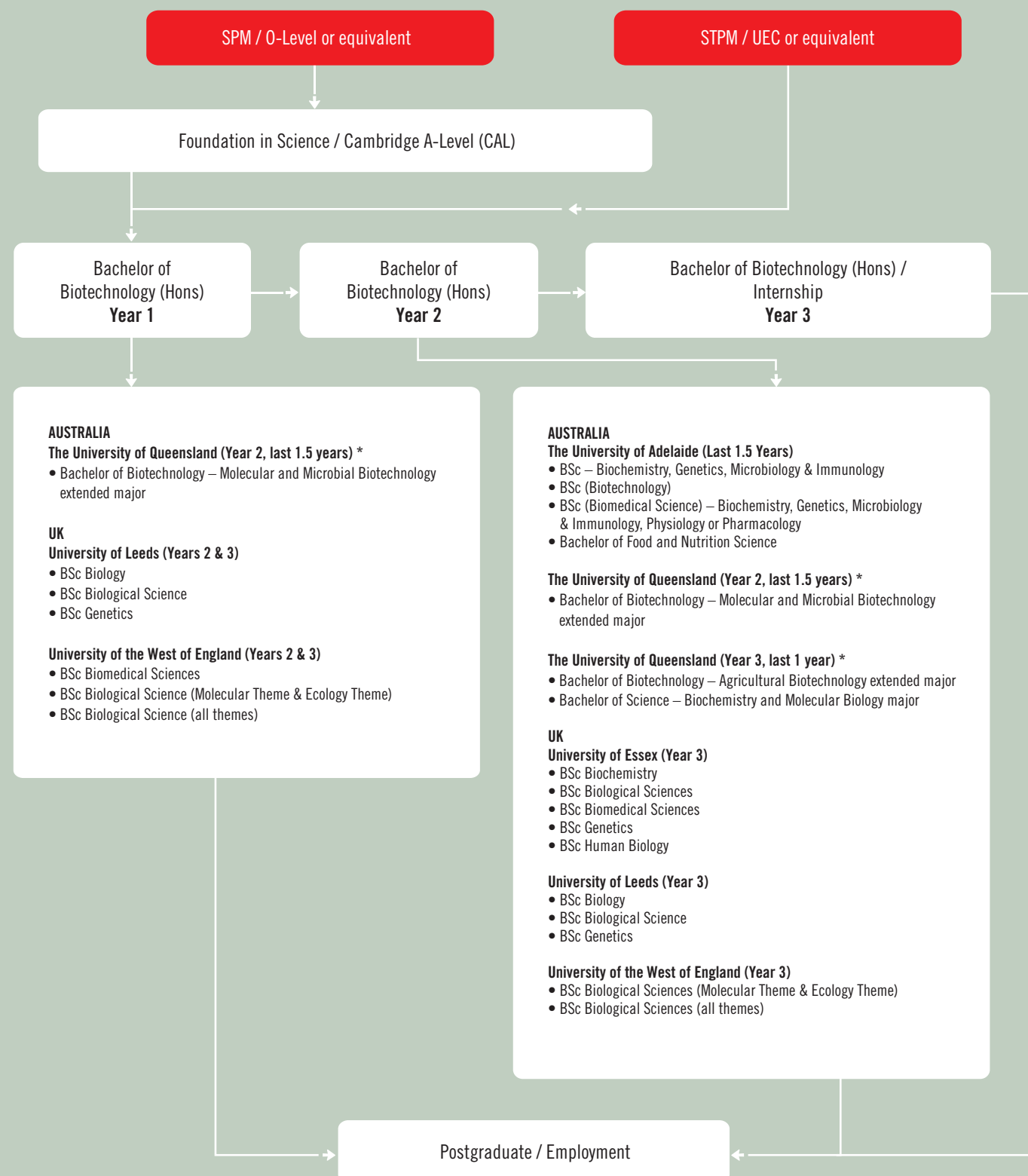


UNIVERSITY OF ESSEX

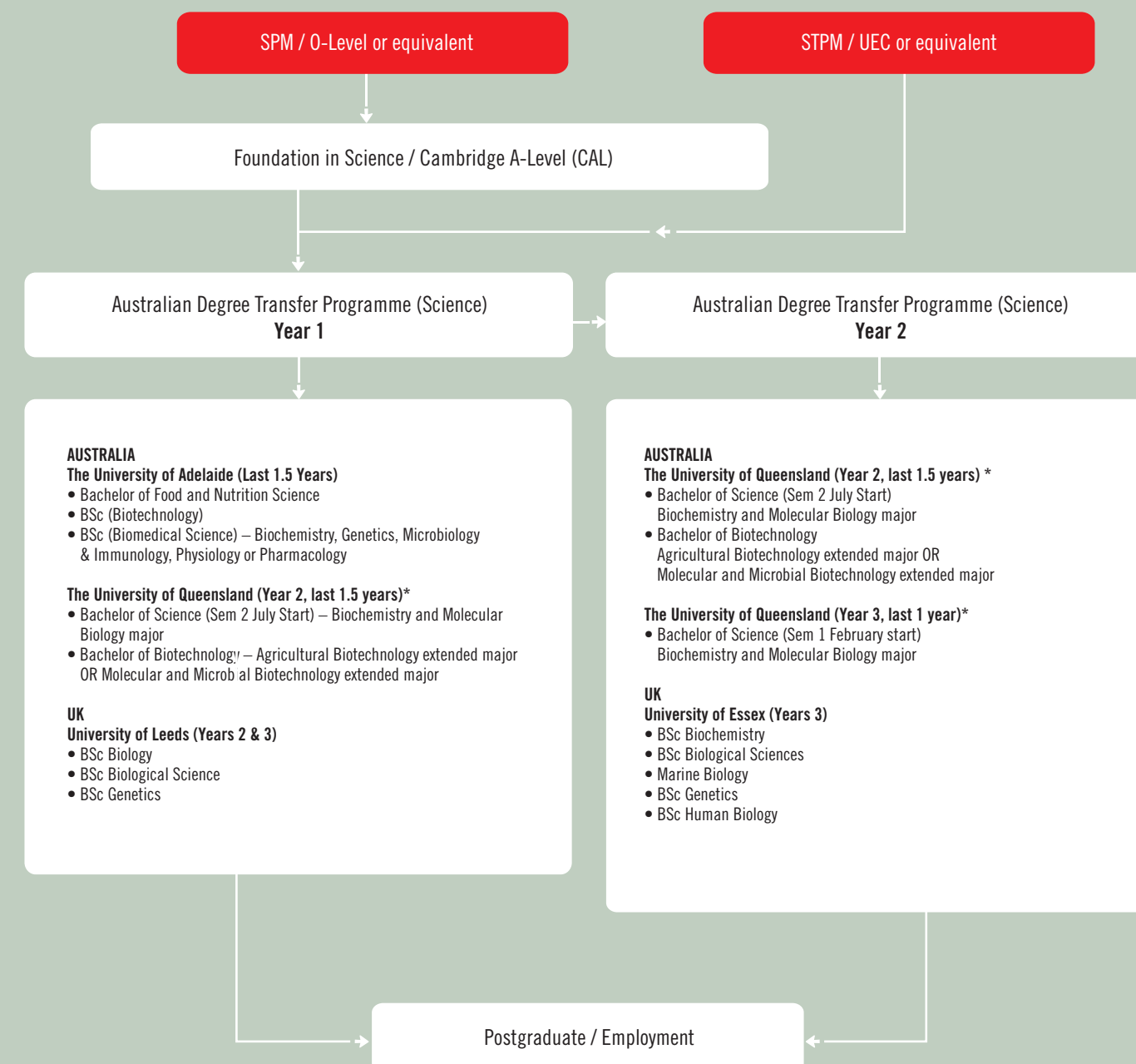
At Essex you can study a wide and exciting range of subjects including biomedical science, marine biology, biochemistry, biological sciences, genetics or genomics. The curriculum is constantly evolving, so you have the freedom to explore what interests you most from its diverse selection of modules. Whatever you choose, the University equips you with everything you need to build a successful and satisfying career.

INTI BIOTECHNOLOGY PATHWAY

BACHELOR OF
BIOTECHNOLOGY (HONS)



AUSTRALIAN DEGREE TRANSFER PROGRAMME (SCIENCE)



*The above is a guide only, credit is not final until it is assessed by UQ after receiving an application. Credit eligibility is subject to students meeting the entry requirements for the programme for which they are applying and may change with the addition of other plans (minors, majors, or extended majors). All credit is subject to UQ's Policy and Procedures (<https://ppl.app.uq.edu.au/content/topic>).



ENTRY REQUIREMENTS

Foundation in Science

Pure Science/ Other Science Area Pathway

SPM / O-Level / Equivalent:

5 credits including Mathematics and two other Pure Science subjects and a pass in Bahasa Malaysia and English

UEC / Equivalent:

3Bs including Mathematics, two other Science subjects and a pass in English

Biological Science/Bioscience Pathway:

Depending on the final degree choice (Medicine, Dentistry, Pharmacy, Health Science and Allied Health). Please refer to the Head of Programme for further information on the requirements.

Bachelor of Biotechnology (Hons)

Foundation

Completion of Foundation Programme with a CGPA of 2.00, or its equivalent, and possess SPM with 3 credit in Mathematics, 1 science subject and 1 any other subject, or its equivalent

A-Level

A-Level with minimum grade D (NGMP 2.0) in 2 subjects and possess SPM/O-Level with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent.

STPM

2 grade C in any 2 subjects, or its equivalent; and possess SPM with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

SACE International

(formerly known as South Australian Matriculation (SAM))

ATAR of 70 and possess SPM/ its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

NSW (HSC)

ATAR of 70 and possess SPM/ its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

Australian Year 12

ATAR of 70 and possess SPM/ its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

UEC

5Bs including Mathematics and 1 science subject

Canadian Pre-U (Ontario Senior Secondary Diploma)

6 subjects with minimum average score of 68 and possess SPM/its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

Matriculation in related fields

Programme with a CGPA of 2.00, or its equivalent, and possess SPM with 3 credit in Mathematics, 1 science subject and 1 any other subject, or its equivalent

Diploma

Completion of Diploma with a minimum CGPA of 2.00, or its equivalent.

MUFY

4 subjects with minimum average score of 61

Others

Other equivalent qualifications as recognised by the Malaysian government

Australian Degree Transfer Programme (Science)

Foundation

Completion of Foundation Programme with a CGPA of 2.00, or its equivalent, and possess SPM with 3 credit in Mathematics, 1 science subject and 1 any other subject, or its equivalent

STPM

2 grade C in any 2 subjects, or its equivalent; and possess SPM with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

SACE International

(formerly known as South Australian Matriculation (SAM))

ATAR of 70 and possess SPM/ its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

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Canadian Pre-U (Ontario Senior Secondary Diploma)

6 subjects with minimum average score of 68 and possess SPM/its equivalent with 3 credits in Mathematics, 1 science subject and 1 any other subject, or its equivalent

Matriculation in related fields

Programme with a CGPA of 2.00, or its equivalent, and possess SPM with 3 credit in Mathematics, 1 science subject and 1 any other subject, or its equivalent

Others

Other equivalent qualifications as recognised by the Malaysian government

A-Level

2 principal passes in any of 2 science subjects

Note:

The credit requirement at SPM level can be exempted should the grades obtained are equivalent / higher. Student must obtain 5Bs at UEC AND credit in Mathematics and 1 science subject at SPM.

FOUNDATION IN SCIENCE

This programme prepares students for admission into science-related degrees in INTI. It is designed to equip students with a solid fundamental knowledge of their field of study, which includes Physics, Chemistry, Mathematics, English and Basic Computing.

Learning approach

Students will be introduced to various active learning methodologies such as Problem-based Learning, group discussions and projects, helping them to develop academically in areas like study skills, presentation skills, research skills and time management, which are all prerequisites for academic success. This will further enhance their critical and analytical skills, preparing them for the demands of the workplace.

Assessment

Assessment of individual courses in the Foundation Programme consists of two components:

- Continuous course work (50%)
- Final examination (50%)

The continuous course work component comprises different assessment tasks such as projects, assignments, laboratory work, presentations, tests, and others as assigned throughout each semester. The final examination is conducted at the end of each semester. The assessments are subject to quality assurance procedures to maintain high standards and ensure fair assessment.

Offered at

INTI International University
(R3/0011/3/0055)(03/29)(A10019)

INTAKES: JAN, MAY & AUG

INTI International College Subang
(R/0011/3/0051)(04/2027)(MQA/FA8898)

INTI International College Penang
(R/0011/3/0030)(09/28)(MQA/FA8334)

INTAKES: JAN, APR & AUG

Duration

1 Year

Programme structure

- Chemistry 1
- Chemistry 2*
- English Language Skills 1
- English Language Skills 2*
- General Studies
- Mathematics 1
- Mathematics 2*
- Self-Development Skills
- Skills for Creative Thinking

Elective papers for Biological Science/ Bioscience Pathway

- Basic Computing
- Biology 1
- Biology 2*
- Statistics

Elective papers for Pure Science / Other Science Area Pathway

- Biology 1
- Biology 2*
- Physics 1
- Physics 2*

Elective papers for Engineering Pathway

- Physics 1
- Physics 2*
- Engineering Mechanics*
- Basic Computing

** Prerequisite applies*

BACHELOR OF BIOTECHNOLOGY (HONS)

This programme provides comprehensive training in the practical application of organisms and their cellular components in manufacturing, service industries, and environmental management. Students receive thorough academic and practical training in core Molecular Biosciences – including Biochemistry, Genetics, Microbiology, Molecular Biology, and Immunology – which form the foundation for exploring diverse areas of biotechnology. To further enrich their academic journey and align with current industrial trends, students may also select free electives in areas such as Artificial Intelligence and Management. To promote versatility and career readiness, the programme offers three specialisation pathways in the final year, enabling students to gain valuable insights into Medical Biotechnology, Agricultural Biotechnology, or Environmental Biotechnology, according to their interests and career goals.

Highlights

- The programme spans a variety of key biotechnology areas from optimisation of processes such as those involved in producing antibiotics, vaccines, monoclonal antibodies, and genetically engineered transgenic plants and animals, to carrying out gene therapy, improving water and land management, and remedying pollution
- Well-equipped labs, where all Biotechnology undergraduates will have the opportunity to use advanced equipment such as the Real-Time PCR, HPLC, Bioreactor, Sonicator and Inverted Microscope
- Students may transfer to partner universities in Australia or the UK upon completing 1 or 2 years at INTI International University
- Students may change their majors when transferring to partner universities
- Collaborations with prestigious partner universities such as The University of Adelaide, The University of Queensland, University of Essex, University of Leeds and University of the West of England

Career opportunities

- Science Officer, Science Researcher, Clinical and Regulatory Executive or Officer, Field Application Specialist, Technical Support Executive or Officer, Service Engineer, Quality Assurance Officer, Quality Control Officer, Safety Specialist
- Industries in the public or private sector: biotechnology, health and beauty care, chemical and pharmaceutical manufacturing companies, research companies, clinical diagnostic laboratories, environmental pollution control companies, hospitals and various government research agencies

Offered at

INTI International University
(R3/0512/6/0010)(05/27)(A7640)

INTAKES: JAN, JUNE & AUG

Duration

3 Years (9 semesters)

Programme structure

Year 1

- Analysis of Genetics Inheritance
- Biochemistry of Biomolecules & Enzymes
- Biology of Organisms
- General Chemistry
- Introduction to Biotechnology
- Mathematics & Statistics
- Molecular & Cell Biology
- Physical Chemistry
- Techniques in Molecular Biology
- Free elective*

Year 2

- Plant & Animal Breeding
- Biotechnology Practice
- Bioinstrumentation & Analytical Techniques
- Cell & Tissue Culture
- Cellular & Metabolic Biochemistry
- Chromosomes, Gene Regulation & Evolution
- Fermentation Technology
- Immunology
- Microbiology
- Recombinant DNA Technology
- Techniques in Cell Culture & Applications

Year 3

- Bioethics
- Bioinformatics
- Biotechnology Project
- Internship
- Methods & Skills in Research
- Pathway Electives

Students are allowed to choose ONLY one of the following three specialisations pathways:

i) Agriculture Biotechnology Pathway:

- Biodiversity Conservation
- Environmental & Food Security
- Molecular Diagnostics in Agriculture
- Recent Advances in Agriculture Biotechnology

ii) Environmental Biotechnology Pathway:

- Biodiversity Conservation
- Biosafety
- Environmental Biochemistry
- Waste Management & Utilisation

iii) Medical Biotechnology Pathway:

- Biosafety
- Medical Microbiology
- Medical Diagnostics & Monitoring Techniques
- Recent Advances in Medical Biotechnology

*Students are allowed to choose ONLY one of the following two free electives:
i) Fundamental of Artificial Intelligence
ii) Organisation & Management

MPU subjects

1. Compulsory

- Bahasa Kebangsaan A**
- Community Service
- Integrity and Anti-Corruption
- Philosophy and Current Issue
- Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay (International students)

2. Electives (Choose one)

- Design Thinking
- Corporate Social Responsibility
- Presentation Skills

AUSTRALIAN DEGREE TRANSFER PROGRAMME (SCIENCE)

Students can pursue Biotechnology, Life Sciences, Molecular Biosciences or Biomedical Sciences for up to the first two years of the degree programme. Successful students can transfer to partner universities in Australia or the United Kingdom to complete the degree. It is noteworthy that a number of the collaboration universities are consistently ranked among the top universities worldwide by The Times Higher Education and the QS World University Rankings.

In Year 1, students take up the core basic sciences in Chemistry and Molecular & Cell Biology, supported by courses in Mathematics, Management, and Computing. In Year 2, they proceed to “cornerstone” courses in Biochemistry, Biotechnology, Genetics, Microbiology, and Immunology.

**For Malaysian students who do not have a credit in SPM BM.*

Highlights

- Well-equipped labs, where all Australian Degree Transfer Programme (Science) students will have the opportunity to use advanced equipment such as the Real-Time PCR, HPLC, Bioreactor, Sonicator and Inverted Microscope
- Collaboration with prestigious partner universities like the The University of Adelaide, The University of Queensland, University of Essex and University of Leeds.

Career opportunities

- Science Officer, Researcher, Clinical and Regulatory Executive, Regulatory Officer, Field Application Specialist, Technical Support Executive (Officer), Service Engineer, Quality Assurance Officer (Executive or Supervisor or Analyst), Quality Control Officer (Supervisor, Assistant or Analyst), Safety Specialist
- Industries in the public or private sector: biotechnology, food and drink (including brewing), farming and agriculture, health and beauty care, research companies, medical and scientific instruments companies, chemical and pharmaceutical manufacturing companies, research companies (including companies conducting clinical trials), clinical diagnostic laboratories, analytical and testing laboratories, environmental pollution control companies, hospitals, blood banking services, government research agencies and facilities (medicine, farming and agriculture, fisheries, forestry, etc.), forensic services and universities

Offered at

INTI International University
(R3/0512/6/0018)(06/29)(A10501)

INTAKES: JAN, MAY & AUG

Duration

2 Years (6 semesters)

Programme structure

Level 1

- Biology of Organisms
- Chemistry 1
- Chemistry 2
- Computing
- Introduction to Biotechnology
- Mathematics and Statistics
- Molecular and Cell Biology
- Organisation and Management

Level 2

- Biochemistry 1
- Biochemistry 2
- Biotechnology Laboratory
- Bioinstrumentation & Analytical Techniques
- Cell and Tissue Culture
- Fermentation Technology
- Genetics 1
- Genetics 2
- Immunology
- Microbiology
- Recombinant DNA Technology

MPU subjects

1. Compulsory

- Bahasa Kebangsaan A*
- Community Service
- Integrity and Anti-Corruption
- Philosophy and Current Issue
- Appreciation of Ethics and Civilisations (Local students) / Communicating in Malay (International students)

2. Electives (Choose one)

- Design Thinking
- Corporate Social Responsibility
- Presentation Skills

MASTER OF BIOTECHNOLOGICAL INNOVATIONS AND APPLICATION (BY RESEARCH)

This Master of Biotechnological Innovations and Application programme is designed to meet industrial demands by nurturing creative approaches in biotechnology research among students which will prepare them to adopt and apply current practices in the industry in innovative ways.

This programme deepens the understanding of fundamental and applied concepts of specific fields in biotechnology such as agricultural biotechnology, industrial biotechnology, medical biotechnology, and bioinformatics.

This is a research-based programme suitable for anyone interested in pursuing a Master’s Degree. It is flexible and open to all eligible graduates and working adults.

Career opportunities

Academicians, Biotechnology Product Specialist, Microbiologist, Research and Development Manager, Biotechnology Product Analyst, Process Development Scientists and many more.

Offered at

INTI International University
(N/0510/7/0001)(08/27)(MQA/PA15848)

INTAKES: JAN, MAY & SEPT

Duration

Full-time: 2 Years
Part-time: 3 Years

Programme structure

- Research Methodology
- Proposal Defense
- Research Thesis
- Viva Voce in the final year
- Students are required to produce a thesis to fulfill graduation requirements

Entry Requirements

- A Bachelor’s Degree (Level 6, MQF) in Biotechnology or related field with a minimum CGPA of 2.75, or its equivalent, as accepted by the University Senate; OR
- A Bachelor’s Degree (Level 6, MQF) in Biotechnology or related field with at least CGPA of 2.50 and has not achieved CGPA 2.75, or its equivalent can be accepted subject to a rigorous internal assessment; OR
- A Bachelor’s Degree (Level 6, MQF) in Biotechnology or related field but has not achieved CGPA of 2.50, or its equivalent can be accepted subject to a minimum of FIVE (5) years’ working experience in the relevant field.
- International students are required to achieve a minimum score of 5.5 in International English Language Testing System (IELTS) or Band 4 in Malaysian University English Test (MUET) or its equivalent.

Note: Candidates without a qualification in the related fields or relevant working experience must undergo appropriate prerequisite courses determined by the university and meet the minimum CGPA based on (i) to (iii).

BIOTECHNOLOGY COMPETITIONS AND STUDENT ACTIVITIES

▼ STUDY TOUR TO JIANGSU MEDICAL COLLEGE, CHINA

Students broadened global perspectives, deepened medical insights, and grew as future healthcare leaders.



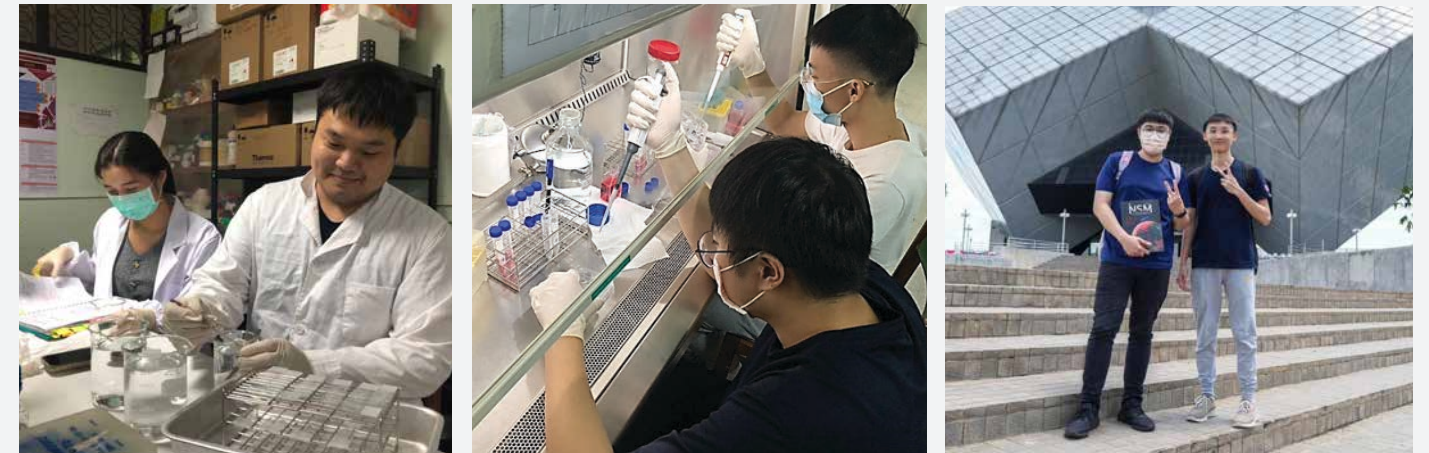
▼ EINSTEIN RESEARCH ACADEMY INTER-VARSITY INNOVATION COMPETITION 2024

The Life Science Division made an impressive mark at the prestigious ERA Inter-varsity Innovation Competition (IVIC) 2024, organised by the Einstein Research Academy. Our talented students won 2 Gold Awards and 3 Silver Awards.



▼ INTERSHIP AT KHON KAEN UNIVERSITY, THAILAND

Students gained hands-on natural drug discovery experience while fostering cultural immersion and international collaboration.



▼ UNIVERSITY SOCIAL RESPONSIBILITY (USR) : A “RAINBOW ON MY PLATE” PROGRAMME

The programme taught children smart food choices, promoting health, education, and alignment with SDG 3 (Good Health and Well-Being) and SDG 4 (Quality Education).



▼ UNIVERSITY SOCIAL RESPONSIBILITY (USR): RESPONSIBLE WASTE MANAGEMENT CAMPAIGN

On Environment Day, students and lecturers led a USR initiative promoting sustainable waste management.



HEAR WHAT OUR ALUMNI SAY



“My experience at INTI has been fantastic. Kudos to the lecturers! They are very supportive and always willing to listen to us and guide us. I admire their constant dedication and unwavering determination. There are endless opportunities to grow at INTI. I have gained many great experiences studying here and I would highly recommend INTI to everyone.”

MUSKAN KARMANI
Business Development Executive, Putra Wijaya Maju
Bachelor of Biotechnology (Hons)

“I joined INTI because it had one of the most established and reputable Biotechnology programmes. What I really liked was the integrated learning experience which went way beyond doing coursework. Subsequently, INTI Career Services was instrumental in helping me secure a internship opportunity that led to a permanent position as a research scientist. I know I am very fortunate to be in a career that I love. ”

ARUTHELVAM BALAKRISHNAN
Senior Scientist at Sime Darby Technology Centre
Bachelor of Biotechnology (Hons)



“One of the best things about INTI was its diverse student population. Interacting with them offered priceless insights into cultures from all over the world. The experience groomed me to cope better in the working world, where everyday you will face adversity or challenges.”

LEW ZIEN
Management Associate at Ant Futurtes a.k.a Ento Malaysia
Bachelor of Biotechnology (Hons)

“Looking back, my INTI journey was a pivotal stepping stone to some of my greatest accomplishments. After completing my Biotechnology programme, I realized I had a passion for food science, so I decided to pursue my Masters in Food Science and Innovation at Manchester Metropolitan University. In the UK, I participated in a host of interesting projects – from developing beer from bakery products to collaborating with one of UK’s biggest supermarket chains and getting my food safety HACCP certification. Can’t wait to make my mark in the food industry!”

LIEW ZEH SAN
Bachelor of Biotechnology (Hons)



“INTI has offered a life-changing experience with a focus on personal growth, academic exploration, and career readiness. As I reflect on my time at INTI, I am filled with gratitude for the lifelong memories, enduring friendships, and the firm foundation it has laid for my future endeavours.”

TAN XIN YI
Product Specialist, DKSH Malaysia Sdn Bhd
Bachelor of Biotechnology (Hons)

EMPLOYER PROJECTS

INTI has established close ties with leading companies in the industry to develop employer projects to enable students to gain real, hands-on work experience while studying. Through these projects, students are presented with immediate challenges faced by businesses, and are required to work together in teams to develop and present their proposals. Projects are based on real-life business issues that will help students to develop their knowledge and apply their soft skills in actual business scenarios.

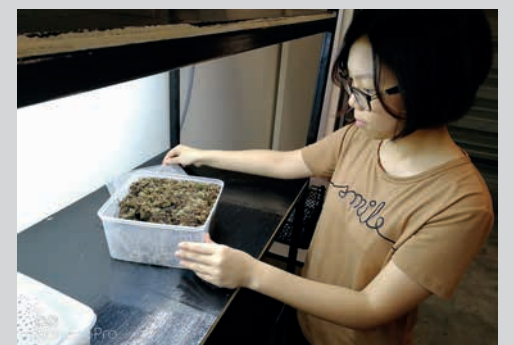
Some employer projects undertaken by our students:

THE OPTIMISATION OF GROWTH FACTORS FOR PLANT CULTURE WITH HIGH DECORATIVE VALUE

TerraLiving Enterprise

The growth of plants in outdoor greenhouses has proven to be challenging due to temperature fluctuation, inconsistent sunlight exposure and pest outbreaks. Students from the Bachelor of Biotechnology programme collaborated with TerraLiving Enterprise to find the best way to grow plants with high decorative value in an outdoor greenhouse e.g. moss and lower plants (*Leucobryum glaucum*, *Hypnum plumaforme*, *Bryum* sp.) If the current breed of plants could not adapt to the indoor environment, an artificial selection of plant would be used to perform.

The students put together a collaborative study to come up with practical ways of cultivating indoor plants, using different growth parameters and applied knowledge gained in Agrobiotechnology to determine the best parameters for the study. The creative and highly motivated students also utilised knowledge and entrepreneurial skills obtained in Industrial Biotechnology to propose the commercial aspects of indoor plant cultivation that could reduce overall cost for TerraLiving.



THE OPTIMISATION OF SUBSTRATES FOR THE CULTIVATION OF MUSHROOMS WITH HIGH COMMERCIAL VALUE

Nas Agro Farm

The objective of this project was to determine the commercial and scientific benefit of using an alternative green and renewable source as a substrate for the cultivation of oyster mushrooms.

INTI students were required to identify a readily available resource to be tested as a potential substrate for mushroom cultivation, substituting sawdust, a conventional mushroom growing medium which is not environmental friendly. Thus, a new medium is pressingly needed for the sustainable development of the industry. The students successfully identified an alternative green and renewable source, with the correct formulation, as a potential replacement for the current medium.



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