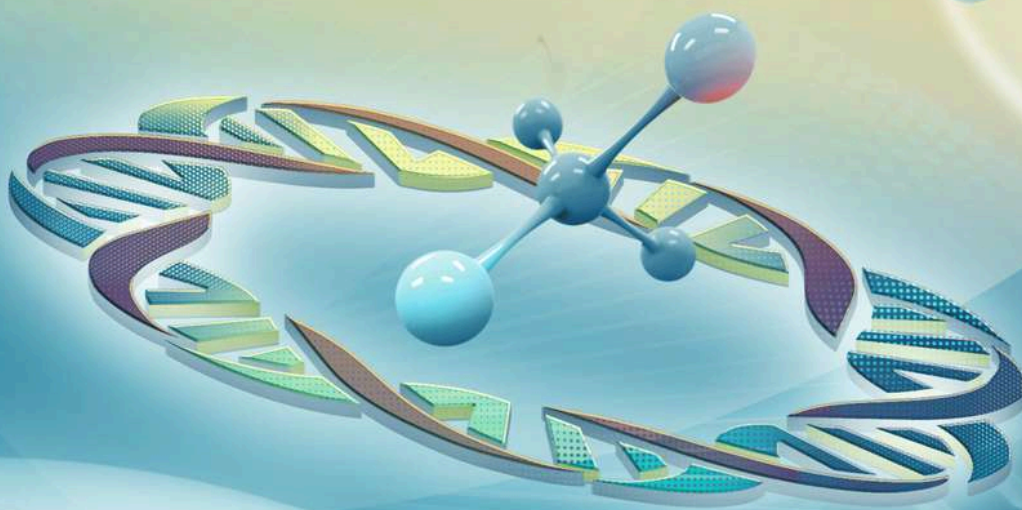


Bachelor of Science (Honours) in  
**Applied Biology with Biotechnology**

Bachelor of Science (Honours) in  
**Chemical Technology**

Bachelor of Science (Honours) in  
**Analytical Sciences for Testing and Certification**

Spark Your Path to a  
**Brighter Future  
through Science**







# Message from Head of Department

Welcome to the Department of Applied Biology and Chemical Technology (ABCT) at The Hong Kong Polytechnic University. At the Department of ABCT, we promote a vigorous and dynamic learning environment with continuous enhancement of our curriculum. Aside from the conventional science programmes, we have designed several diverse interdisciplinary and inquiry-driven programmes to meet the ever-changing demands of society.

Inside the classroom, our programmes emphasise flexibility and creativity. They equip our students with the skills, knowledge, and confidence to become independent thinkers. We are committed to both teaching and research. We will instil in our students the importance of scientific rigor and ethics. Our academic advisors will inspire and encourage our students to achieve their full potential.

Outside the classroom, our students enjoy a wide range of learning opportunities such as overseas exchange programmes, mentorship and internship programmes, service-learning activities, career advising, and personalised support. Such co-curricular programmes and activities broaden our students' horizons and help realise their holistic development.

The Department of ABCT is committed to quality and excellence. Our past successes have established a strong foundation enabling us to move forward. By strengthening our ties with the local and international community, we further enhance our contributions to science. I hope you will join us as we continue to advance the frontiers of scientific research and education.



Prof. Chow Ming-cheung, Larry  
Head (ABCT) & Professor



# Why The Hong Kong Polytechnic University

## Global Experience

Committed to nurturing students as global citizens with overseas experiences such as:

- Worldwide exchange studies
- Overseas summer Internships
- International scientific competitions and conferences

## Top-ranked Scientists

Our academic staff members are among the world's top-ranked scholars

## High Global Rankings



QS World University Rankings 2025 **57<sup>th</sup>**



THE World University Rankings 2025 **84<sup>th</sup>**

THE Young University Rankings 2024 (Global) **7<sup>th</sup>**

THE World's Most International Universities 2024 (Global) **10<sup>th</sup>**

THE Asia University Rankings 2024 (Global) **19<sup>th</sup>**

THE Impact Rankings 2024 **77<sup>th</sup>**





# Entrance Requirements

## BSc (Hons) in Applied Biology with Biotechnology

### Entrance Requirements

An Associate Degree or a Higher Diploma in a relevant discipline (e.g. Biology, Biotechnology), or the equivalent discipline.

### Selection Criteria

- Applications are considered based on academic performance. Strong emphasis is placed on academic performance in the core subjects of AD/HD studies as well as on English proficiency.
- The number of transferable credits is also a key criterion for selection. Applicants are expected to have completed around 60 transferable credits in relevant subjects in their AD or HD studies. Applicants with excellent academic results but an inadequate number of transferable credits may be considered for non-JUPAS Year 1 admission to the programme.

### Preferred Subjects in your Home Institution

#### Biology

- General Biology
- Human Physiology
- General Biochemistry
- Cell Biology
- General Microbiology
- Molecular Biology

#### Physics

- Physics I



#### Chemistry

- General Chemistry I
- Organic Chemistry

#### Mathematics

- Calculus
- Statistics

Remark: The subject which is equivalent will be considered for credit transfer.







# Entrance Requirements

## BSc (Hons) in Chemical Technology

### Entrance Requirements

An Associate Degree or a Higher Diploma in a relevant discipline (e.g. Chemistry, Chemical Technology), or equivalent.

### Selection Criteria

Applications are considered based on academic merit. Strong emphasis is placed on academic performance in the core subject areas (including Mathematics, Physics, Chemistry and Biology) as well as on English proficiency. The number of transferable credits is also a key criterion for selection. Applicants are expected to have completed their AD/HD studies with around 50 transferable credits with respect to the 4-year curriculum. Applicants with excellent academic credentials but an inadequate number of transferable credits may be considered for non-JUPAS Year 1 admission to the programme.

### Preferred Subjects in your Home Institution

#### Chemistry

- General Chemistry I
- General Chemistry II
- Analytical Chemistry
- Organic Chemistry
- Physical Chemistry

#### Physics

- Physics I



#### Biology

- General Biology

#### Mathematics

- Calculus and Linear Algebra
- Statistics

Remark: The subject which is equivalent will be considered for credit transfer.





# Entrance Requirements

## BSc (Hons) in Analytical Sciences for Testing and Certification Entrance Requirements

An Associate Degree or a Higher Diploma in a relevant discipline (e.g. Science, Chemistry, Chemical Technology), or the equivalent.

### Selection Criteria

Applications are considered based on academic merit. Strong emphasis is placed on academic performance in the core subject areas (including Chemistry and Biology, preferably with Mathematics and Physics), as well as on English proficiency.

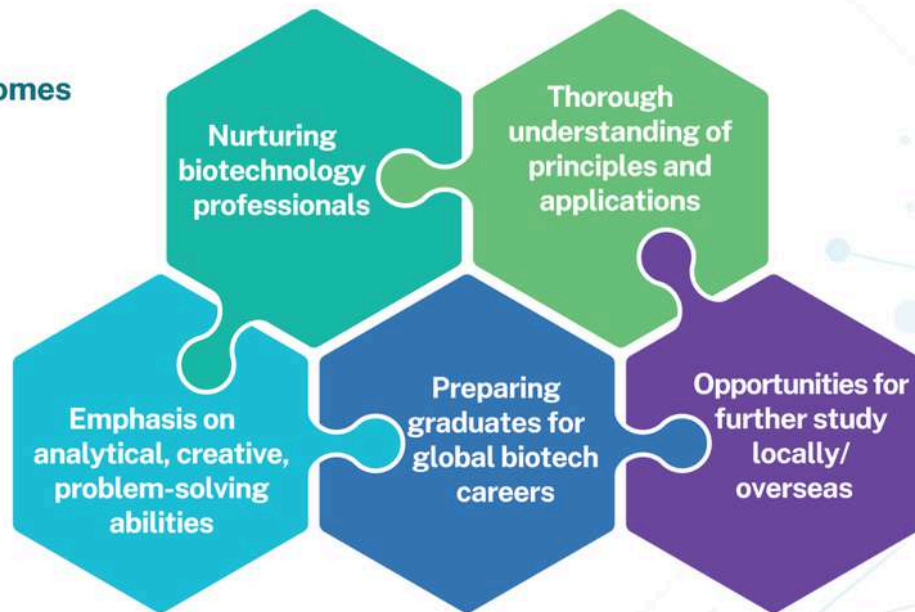






# BSc (Hons) in Applied Biology with Biotechnology

## The Programme Aims & Learning Outcomes



## Programme Characteristics



First international degree programme accredited by the Royal Society of Biology (RSB)

### Broad coverage in biotechnology :

- Human Physiology
- Microbiology, Microbial Biotechnology
- Biochemistry
- Molecular Biology
- Bioinformatics
- Immunotechnology
- Protein Biotechnology
- Medical Biotechnology
- Metabolism and Diseases
- Case Study in Biotechnology Companies
- Chemical and Anatomical Pathology
- Haematology

Integration of theories and practical skills

Local and global exposure

Unique work-integrated education (WIE) experience

## Option of Secondary Major in Innovation and Entrepreneurship (IE) available

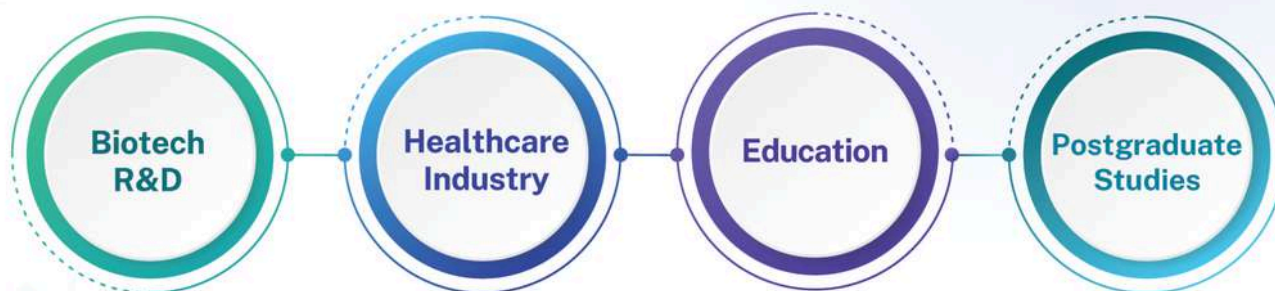
- Nurture future leaders in innovation and entrepreneurship
- Creativity, Innovation & Entrepreneurship
- Greater Bay Area (GBA) Immersion
- Field Study for Innovation Ecosystem
- Business Innovation Project
- Case Study in Biotechnology Companies
- 200 hours of Company Attachment

## Professional Recognition

- Certificate with RSB accreditation
- Most updated life science development
- International recognition in skills and experience
- Extensive professional network
- Professional career advice



## Career Prospect



## Scholarships

Two one-off entry scholarships of HK\$10,000 each will be granted to students admitted into the Senior Year places of the programme who graduated from an Associate Degree or Higher Diploma with a graduation/award GPA of 3.60 or above (or equivalent). Students' performance in the admission interview will be taken into consideration.

The recipients must obtain a cumulative GPA of 3.0 or above in the first semester of study and are not allowed to concurrently hold more than one Entry Scholarship awarded by the Department.

*PolyU reserves the right to change or withdraw the scholarship at any time. In case of any dispute / disagreement, PolyU's decision is final.*

Programme Details



<https://polyu.hk/UHsyF>

## Average monthly salary of our graduates in 2023

Job Nature	Average Monthly Salary
Administration & Management	HK\$ 17k
Clerical & Related Work	HK\$ 16k
Laboratory & Science Support	HK\$ 18k
Sales & Marketing	HK\$ 21k
Teaching/Research	HK\$ 19k







# BSc (Hons) in **Chemical Technology**

## The Programme

### Aims & Learning Outcomes

Functional  
Materials  
Design

Pharmaceutical  
Advancements

Environmental,  
Social, and  
Corporate  
Governance (ESG)  
Integration

Molecular  
Architecture  
Development

### Programme Characteristics



Core and elective courses span chemical principles, industrial chemistry, pharmaceuticals, advanced and functional materials, environmental and societal issues

Excellent career prospects in science, technical, business, environmental, and consulting industries



Broad coverage in modern chemical and environmental science:

- Inorganic Chemistry
- Organic Chemistry
- Physical Chemistry
- Analytical Chemistry
- Consumer Behaviour
- Economic Analysis for Process Technology
- Medicinal Chemistry
- Natural Products Chemistry
- Quality Assurance for Product Development

Unique work-integrated education (WIE) experience



Extensive industrial visits



Diverse international exposure  
• Well-established framework for outward exchange and internship



Coverage of ESG topics:  
• Management & Organisation  
• Materials Science for Sustainability  
• Green Chemistry for Environments  
• Greenhouse Gas + Carbon Footprint:  
Quality Assurance and Auditing



## Professional Recognition

- Certificate with HKCS and RSC accreditation
- Most updated chemistry development
- International recognition in skills and experience
- Extensive professional network
- Professional career advice



## Career Prospect



## Scholarships

Two one-off entry scholarships of HK\$10,000 each will be granted to students admitted into the Senior Year places of the programme who graduated from an Associate Degree or Higher Diploma with a graduation/award GPA of 3.60 or above (or equivalent). Students' performance in the admission interview will be taken into consideration.

The recipients must obtain a cumulative GPA of 3.0 or above in the first semester of study and are not allowed to concurrently hold more than one Entry Scholarship awarded by the Department.

*PolyU reserves the right to change or withdraw the scholarship at any time. In case of any dispute / disagreement, PolyU's decision is final.*

## Average monthly salary of our graduates in 2023

Job Nature	Average Monthly Salary
Administration & Management	HK\$ 19k
Laboratory & Science Support	HK\$ 18k
Literary & Creative Work	HK\$ 10k
Sales & Marketing	HK\$ 24k
Service Work & Other	HK\$ 17k
Teaching/Research	HK\$ 18k

Programme Details



<https://polyu.hk/rJToF>





# BSc (Hons) in Analytical Sciences for Testing and Certification

## The Programme

### Aims & Learning Outcomes

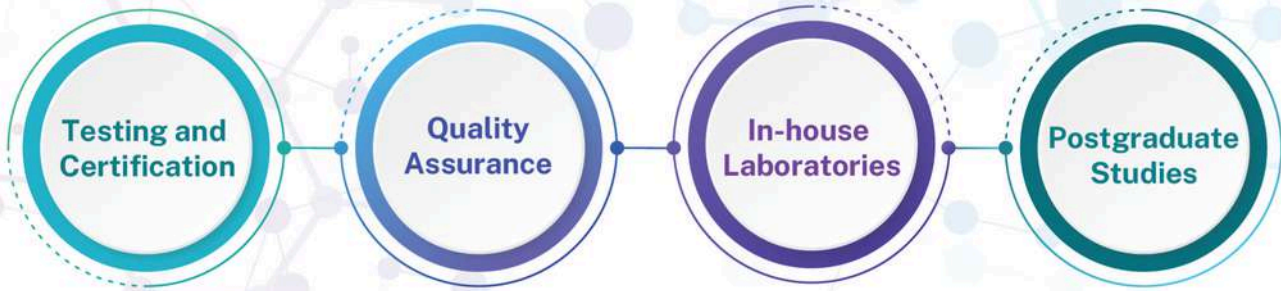


## Programme Characteristics





## Career Prospect



## Scholarships

Two one-off entry scholarships of HK\$10,000 each will be granted to students admitted into the Senior Year places of the programme who graduated from an Associate Degree or Higher Diploma with a graduation/award GPA of 3.60 or above (or equivalent). Students' performance in the admission interview will be taken into consideration.

The recipients must obtain a cumulative GPA of 3.0 or above in the first semester of study and are not allowed to concurrently hold more than one Entry Scholarship awarded by the Department.

*PolyU reserves the right to change or withdraw the scholarship at any time. In case of any dispute / disagreement, PolyU's decision is final.*

## Average monthly salary of our graduates in 2023

Job Nature	Average Monthly Salary
Administration & Management	HK\$ 21k
Engineering	HK\$ 12k
Laboratory & Science Support	HK\$ 15k
Service work and other	HK\$ 18k

Programme Details



<https://polyu.hk/KbOth>







# Alumni Sharing

## Pham Ngoc Mau Tammy

### Graduate of BSc (Hons) in Applied Biology with Biotechnology

My four years at ABB were transformative. The institution provided a positive and growth-oriented environment from day one. I forged meaningful connections with peers, professors, officers, and staff, all marked by warmth and holistic support. This nurturing ambiance created a deep emotional bond with the institution, leaving me feeling cherished, motivated, and inspired. The structured program prepared me comprehensively for post-graduate challenges. ABB was more than just a program of study; it molded and prepared me for the future. I am immensely grateful for my time there.



## Tsui Tsz Ki

### Graduate of BSc (Hons) in Applied Biology with Biotechnology

The BSc (Hons) in Applied Biology with Biotechnology programme provided me with extensive knowledge of biological science and essential technical skills for my future career and academic pursuits. The Core Subjects covered fundamental concepts while the Elective Subjects allowed me to explore my interests. Lab sessions enhanced my theoretical knowledge and honed problem-solving and critical thinking skills. Overall, this program greatly benefitted me, preparing me well for future professional growth.



## Chan Ka Wing

### Graduate of BSc (Hons) in Chemical Technology

PolyU is a place for self-discovery and growth. Through my studies, I've gained a wealth of knowledge and skills in chemistry, including practical lab skills and a logical approach to challenges. This critical thinking has extended to other aspects of my life. During my work experience in Canada, I made international friends and became more independent. University life differs greatly from high school, demanding hard work and effective time management. However, this freedom allows you to fully embrace the valuable experiences university offers.



## Au Chi Ming

### Graduate of BSc (Hons) in Chemical Technology

The Chemical Technology programme at PolyU has provided me with valuable hands-on lab experience, preparing me for my future career. Through opportunities at institutions like the Georgia Institute of Technology and Tokyo City University, I've become more independent and gained an edge in the job market. Chemistry has always been my passion, as it drives technological advancements that improve society. I aspire to be a chemist who develops affordable pharmaceuticals for underprivileged families. In pursuit of this goal, I've joined Prof. Wing-yiu Yu's research team, where I've gained solid research experience in organic synthesis and discovered the transformative power of Chemistry.





# Alumni Sharing

## Lee Hiu Wai

### Graduate of BSc (Hons) in Analytical Sciences for Testing and Certification

Before I entered the ASTC programme, I had graduated in High Diploma in Chemical Technology in PolyU. I can study theoretical knowledge, laboratory techniques, and understand quality assurance, certification and accreditation in the programme. I made many friends in different backgrounds, which made my university life become wonderful. The program leader organized career talks to introduce the potential development in Testing and Certification industry. I would recommend ASTC programme to prospective students because the programme can help us to familiarize testing and certification industry, which is very important for our society.



## Tsang Hon Fung

### Graduate of BSc (Hons) in Analytical Sciences for Testing and Certification

The Analytical Sciences for Testing and Certification programme enabled me to apply academic knowledge in real life. This programme provided many chances to work in a laboratory. After finishing this programme, I am now well-equipped to start my career in the testing industry. During my studies, I received much support from my lecturers, especially during my Capstone Project, apart from combining and consolidating my knowledge, my lecturers taught me how to reduce errors and uncertainties during testing, while enabling me to obtain accurate and precise results in a shorter time, which are essentials in commercial testing world.





# Diverse Learning Experience

## Internships

Opportunities in:

- Government bodies
- Scientific laboratories
- Clinical laboratories
- Biotech companies
- Overseas universities





# Contact Us

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[polyu.edu.hk/abct/](http://polyu.edu.hk/abct/)



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YouTube:  
PolyUABCTChannel