

5. Career Opportunities after Graduation:

- Analytical Technologists in Government, Commercial Testing or Environmental Monitoring Laboratories
- Quality Assurance Chemists in Chemical Manufacturing, Pharmaceutical & Traditional Chinese Medicine industries
- Researchers in Biomedical, Pharmaceutical and Industrial R & D Laboratories
- Instrument Specialist and Service engineer
- Teacher

6. Chemistry Entrance Scholarship:

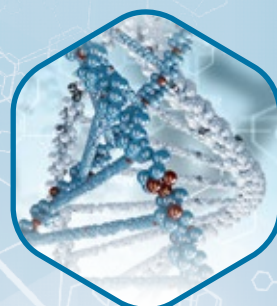
The Chemistry Department offers Entrance Scholarships to students who are admitted to BSc (Hons) in Chemistry; BSc (Hons) in Analytical and Testing Sciences under the following criteria:

- Achieving at least a 5** in any HKDSE science subjects including Extended Part of Mathematics (Module 1 or Module 2).
- Satisfactory academic performance in year 1 study.

BSc (Hons) in Chemistry

化學理學士 (榮譽)

[Bachelor of Science JUPAS code: JS2510]



Admissions Enquiries:

Admissions Section, Academic Registry
Hong Kong Baptist University
Kowloon Tong, Hong Kong
E-mail : 334jupas@hkbu.edu.hk
Website: www.hkbu.edu.hk/ar

Programme Curriculum Enquiries:

Department of Chemistry
Hong Kong Baptist University
Kowloon Tong, Hong Kong
E-mail : chem@hkbu.edu.hk
Website: <http://chem.hkbu.edu.hk/>

1. Programme Aims:

- To provide students with a strong foundation in all principal areas of chemical science.
- To equip students with knowledge for career development, and solving chemistry-related problems, including those in the environmental science; and to meet the needs from government, education, industrial or commercial sectors.

2. Programme Features:

- **Training for Future Employment and Postgraduate Studies.** Students will be equipped with adequate knowledge in both Pure and Applied Chemistry for both employment and postgraduate studies locally or overseas.
- **Final Year Research Project.** Students will be able to apply their knowledge acquired in courses to resolve real-life problems through an independent research project.
- **Hands-On Training in Modern Analytical Instrumentation.** Particular emphasis will be put on training students in modern analytical techniques and the applications of chemical instrumentation.
- **Summer Internship Programme.** We offer a 2-3 months summer internship in several major local chemical testing laboratories as well as chemical manufacturing plants in the Pearl River Delta region in China.
- **Summer Overseas Exchange Programme.** Year 2 or 3 outstanding students will be nominated to conduct a 2-3 months research project at overseas universities (For example, Georgia State University, USA).
- **Summer Research Programme and Student Assistant Scheme.** Several fellowships are offered to support students who are keen on undertaking summer research work with their chosen faculty members. Students are invited to enrol in our Student Assistant Scheme to assist our department in various academic and community service activities to develop interpersonal and organizational skills.

3. Programme Structure:

- **Common Year 1 Curriculum.** Students will be admitted on a Faculty basis. All science students will enrol in a Common Year 1 curriculum, which requires them to take an introductory course offered by each of the five departments within the Faculty, i.e., biology, chemistry, computer science, mathematics and physics. Such curriculum design is founded on the fact that the solution of most scientific problems today requires a multi-disciplinary approach, i.e., knowledge and techniques from these five major science disciplines. To this end, we also offer an Integrated Science Laboratory course, which aims to demonstrate to students how to utilize knowledge learnt from different science disciplines to solve real-life problems.
- **Broad-Based Whole Person Education.** Students must complete a total of 128 units and gain an overall grade point average of 2.0 for graduation. Of the 128 units, 31 units are for General Education (GE) courses, 97 units are Major discipline core and elective courses. This design provides a broad-based whole person education while retaining a focus on a specific academic discipline, Chemistry, in this case.

4. Faculty Members & Their Research Expertise



Dr. AIK, Wei Shen	D.Phil (Oxford, UK) Structure-Based Drug Discovery, Protein Engineering, RNA Metabolism, Protein Crystallography, Chemical Biology.	Dr. LUI, Matthew Y.Y.	Ph.D. (Imperial, UK) Catalysis, Environmental Chemistry, Sustainable Chemistry
Prof. CAI, Zongwei	Ph.D. (Marburg, Germany) Fundamentals and Applications of Mass Spectrometry (GC/MS, LC/MS), Environmental, Pharmaceutical and Biological Analyses, Environmental Toxicology, Proteomics and Metabolomics, Dioxins and Persistent Organic Pollutants (POPs)	Dr. MAN, Wai Lun	Ph.D. (CityU) Reactivity of High-Valent Metal Complexes, Catalysis, Anti-Cancer Molecular Drugs
Dr. CHENG, Yuen Kit	Ph.D. (Houston, USA) Computational Biophysical Chemistry, Chemometrics	Dr. MA, Edmond D.L.	Ph.D. (HKU) Luminescent Probes, Computational Structural Biology, Structure-based Drug Design, Inorganic Medicine
Dr. HO, Koon Sing	Ph.D. (HKU) Analytical Spectroscopy, Fundamentals and Applications of ICP-MS, Single-Cell and Single-Particle Analysis, Chemical Education.	Dr. REN, Kangning	Ph.D. (Tsinghua) Microfabrication and Microfluidics, Biomaterial and Soft Matters, Analytical Microdevices, Biomimicking and Advanced Coating Technology
Dr. HONG, Yanjun	Ph.D. (Zhejiang) Bioanalysis, Metabolomics and Drug Metabolism	Dr. SHIU, Kwok Keung Associate Head	Ph.D. (Alberta, Canada) Electroanalytical Chemistry, Chemically-Modified Electrodes, Amperometric Biosensors
Dr. HOR, Catherine H.H.	Ph.D. (HKU) Primary Cilia Biology & Neurodevelopment, Human Stem Cells & Disease Modelling, Biochemistry of Lanthanides	Dr. WANG, Yi	Ph.D. (Illinois-Urbana-Champaign, USA) Protein-based Nanomaterials, Targeted Drug Release and Delivery, Biodegradable Materials for Biomedical and Environmental Applications
Dr. HU, Di Associate Programme Director, MSc (ANAL CHEM)	Ph.D. (UNC-Chapel Hill, USA) Atmospheric Chemistry, Applications of Analytical Techniques on Environmental Issues	Prof. WONG, Gary K.L. Head	Ph.D. (HKU) Bioinorganic Chemistry, Luminescent Materials, Lanthanide Chemistry and Spectroscopy
Dr. LEE, Chi Sing	Ph.D. (Minnesota, USA) Natural Product Synthesis, Organic Methodology, Catalysis, Medicinal Chemistry, Chemical Biology and Molecular Imaging	Prof. WONG, Ricky M.S.	Ph.D. (Texas-Austin, USA) Functional Molecular Materials, Organic & Supramolecular Chemistry
Dr. LEUNG, Ken C.F. Programme Director, BSc(Hons) in Chemistry	Ph.D. (CUHK) Nanoparticles & Supramolecular Materials for Theranostic, Catalysis & Sensor Applications	Prof. WONG, Rick W.K. Vice-President (R & D)	Ph.D. (Wisconsin-Madison, USA) Inorganic & Organometallic Chemistry, Catalysis & Luminescent Materials
Dr. LEUNG, Kelvin S.Y. Programme Director, MSc (ANAL CHEM)	Ph.D. (HKU) Emerging Contaminants, Elemental Speciation, Clinical Laboratory Diagnosis, Chinese Medicine	Dr. YANG Zhu	Ph.D. (HKBU) Quantitative Biology, Regulation of Signaling Pathways and Metabolic Pathways, High-Throughput "-Omics" Studies, Big Data Analysis, Systems Biology and Computational Modeling.
Dr. LI, Hung Wing Programme Director, BSc(Hons) in Analytical and Testing Sciences	Ph.D. (Iowa State, USA) Analytical Chemistry, Microfluidics, Biophysics and Laser Spectroscopy	Dr. ZHU, Xunjin	Ph.D. (HKBU) Porphyrins for Optoelectronic and Biomedical Applications