Science
Undergraduate Programmes 2023-24

- Bachelor of Science (6901)
- Bachelor of Science & Master of Research (Science Master Class) (6688)
- Bachelor of Science and Bachelor of Laws (5-year Double Degree Programme) (6858)
- Bachelor of Science in Actuarial Science (6729)
- Bachelor of Arts and Sciences (AppliedAI) (6224)
- Bachelor of Arts and Sciences (6212)
- Bachelor of Education and Bachelor of Science (5-year Double Degree Programme) (6119)

Science creates knowledge
Programmes We offer

**Bachelor of Science in Actuarial Science**
A gateway to the actuarial profession with internationally recognised qualifications
- The only programme in Hong Kong accredited by the Institute and Faculty of Actuaries of UK
- Designated as a Center of Actuarial Excellence with University-Earned Credit programme by the Society of Actuaries of North America
- Provides specialist academic and professional training
- Internship opportunities and career prospects in major insurance companies, actuarial consulting firms, investment banks, etc.

**Bachelor of Arts and Sciences** (Applied Artificial Intelligence)
- Impacts the world with the limitless power of AI
- Interdisciplinary programme for elite students
- Highlights diverse AI applications with featured concentrations
- Problem-based learning with a wide range of courses
- Broad career prospects

**Bachelor of Arts and Sciences**
Nurtures future global leaders to make changes in an interconnected world
- Unique programme for elite students to develop a broad set of scholarly skills
- Well-designed study pathways: 1) Cultures/ Societies 2) Physical World/ Biological/ Human Sciences
- Wide career prospects

**Bachelor of Science and Bachelor of Laws**
Nurtures professionals with scientific and legal knowledge in a STEM-driven society
- First of its kind in Hong Kong
- Fast-track for completing 2 degrees in science and law
- Interdisciplinary training for science talents and legal professionals
- Free choice of 14 Science Majors
- Articulation to Postgraduate Certificate in Laws (PCLL) as a step towards professional legal qualification

**Bachelor of Science and Master of Research** (Science Master Class)
- Incubates the next generation of scientists
- Fast-track for completing 2 degrees
- Learning from Science Masters
- Catering the needs of elite students
- Research-oriented

**Bachelor of Education and Bachelor of Science**
Consolidates scientific knowledge through practical experience and teaching in science
- Covers both academic and professional studies
- Incorporates a graduate teaching qualification
- Development opportunities not just in education, but also in commercial and government sectors

**5-year Double Degree Programme**
- Fast-track for completing 2 degrees
- Catering the needs of elite students
- Learning from Science Masters
- Research-oriented

**Double Degree Programme**
- Fast-track for completing 2 degrees
- Learning from Science Masters
- Research-oriented
HKU Science

Global Experiences
Committed to nurturing students as global citizens with overseas experiences such as:
- Worldwide exchange studies
- Overseas Research Fellowship
- Field trips
- Overseas summer courses
- International scientific conferences
- Internships

International Environment
About 40% academic staff in the Faculty are from overseas.

Accreditations
Quality assured through recognition by international professional bodies:
- Hong Kong Institute of Qualified Environmental Professionals
- Royal Society of Chemistry, UK
- The Geological Society, UK
- Institute and Faculty of Actuaries, UK

Top-ranked Scientists
(Clarivate Analytics’ Essential Science Indicators 2021) 18% of professional staff in the Faculty are the world’s top 1% scholars.

Career Prospects
#10 in QS Graduate Employability Rankings 2022
Essentially 100% employment rate (inclusive of further studies) in the past decade.

High University Rankings

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<thead>
<tr>
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Young Scientist Scheme (YSS)
Ample early research experiences for outstanding students in the 6901 BSc Programme and 6688 Science Master Class Programme.

Cambridge-track under YSS
HKU-Cambridge Undergraduate Recruitment Scheme (Natural Sciences) for selected YSS participants
- Earning 3-4 degrees upon successful completion of 2 years of studies at HKU and 2-3 years of studies at Cambridge

Intensive Majors
Specialisation and intensive training make experts
- Biological Sciences (Intensive)
- Chemistry (Intensive)
- Ecology & Biodiversity (Intensive)
- Geology (Intensive)
- Mathematics (Intensive)
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Articulation Pathways
Seamless articulation to widely recognised postgraduate programmes:
- Taught Postgraduate Programmes at HKU Science
- Doctor of Veterinary Medicine (DVM) at University of Melbourne (UoMelb)

Minor in Science Entrepreneurship
Opening the doors to science entrepreneurship
- Visualises how training in science bears relevance to the real world

About 40% academic staff in the Faculty are from overseas.

#1 The Most International University in the World (THE World University Rankings 2022)

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**Bachelor of Science**

Empowers scientific intellectuals to formulate solutions to society’s challenges

---

**The Programme**

- **One entry in the application, with a free choice of**
  - Biochemistry
  - Biological Sciences
  - Biological Sciences (Intensive)
  - Chemistry
  - Chemistry (Intensive) ¹
  - Decision Analytics
  - Earth System Science
  - Ecology & Biodiversity
  - Ecology & Biodiversity (Intensive) ³
  - Environmental Science
  - Food & Nutritional Science
  - Geology
  - Geology (Intensive) ²
  - Mathematics
  - Mathematics (Intensive)
  - Molecular Biology & Biotechnology
  - Molecular Biology & Biotechnology (Intensive) ³
  - Physics
  - Physics (Intensive)
  - Risk Management
  - Statistics

- **Tackling novel situations:** Nurtures a scientifically literate population to address the global challenges that human faces and to make wise decisions informed by scientific understanding

- **Career prospects:**
  - The Faculty has essentially 100% employment rate (inclusive of further studies) in the past decade
  - Many of our graduates are holding positions that demand scientific expertise, such as environmental scientists, nutritionists, clinical scientists, meteorologists, geologists, information specialists, financial analysts, teachers and forensic scientists
  - Our graduates are preferred by employers because of their numerical analytical skills, logical thinking and critical thinking

---

**Key Features**

- **Academic Advising System**
  - One-on-one academic advice

- **Options of 1 Major / 2 Majors / Major-Minor / Major-2 Minors**
  - Students may take a 2nd Major or a Minor or 2 Minors in Science or non-Science disciplines

---

**Intensive Majors**

Specialisation and intensive training make experts

- Offered alongside with the regular 96-credit Majors
- Provide students with extensive subject knowledge
- Equip students who intend to pursue research in science
- Listed in the transcript
- Have an advantage in job application, postgraduate studies, and when seeking chartered status

---

**Curriculum Structure**

- 240 credits
  - **UNIVERSITY EDUCATION Language Courses / Common Core Courses**
  - **PRIMARY SCIENCE MAJOR Science Foundation Courses / Disciplinary Courses / Capstone Courses**
  - **2ND MAJOR / MINOR(S) / ELECTIVES**
  - **NON-CREDIT BEARING REQUIREMENT**
Students in YSS are guaranteed with:

- University of California at Los Angeles
- University of California at Berkeley
- Stanford University
- Columbia University
- Overseas Research Fellowship

Examples of universities for international exchange, visiting or summer study:

North America
- California Institute of Technology
- Columbia University
- Cornell University
- Massachusetts Institute of Technology (MIT)
- Stanford University
- University of California at Berkeley
- University of California at Los Angeles

Europe
- CERN
- University of Cambridge
- University College London
- King’s College London
- Imperial College London

A wide spectrum of scientific research areas:

- Biological Sciences
- Chemistry
- Earth Sciences
- Mathematics
- Physics
- Statistics and Actuarial Science

Examples of institutions for Overseas Research Fellowship

North America
- California Institute of Technology
- Columbia University
- Cornell University
- Massachusetts Institute of Technology (MIT)
- Stanford University
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Europe
- CERN
- University of Cambridge
- University College London
- King’s College London
- Imperial College London

How to join YSS

Enrollment in our flagship Summer Research Fellowship (SRF) Scheme to conduct research under the supervision of our professors in the first summer.

International exchange, visiting or summer study

- A further SRF or an Overseas Research Fellowship (ORF) Scheme in a foreign institution in a subsequent year.
- Attendance in an international scientific conference on frontier scientific research.
- Individual guidance from a personal research mentor from the start of the undergraduate study.

Study Path for YSS Students in the Cambridge Scheme (2+2+1) mode

HKU

- 2nd Summer Research Fellowship or Overseas Research Fellowship
- Guidance from Research Mentor
- Summer Research Fellowship
- Year 1 Summer Research Opportunities

Cambridge

- Specialisation for a Natural Sciences degree at Cambridge in Year 4:
  - Physical Sciences
  - Biological & Biomedical Sciences
  - Earth Sciences
  - Biochemistry
  - Astrophysics
  - Chemistry
  - History and Philosophy of Science
  - Materials Science
  - Physics
  - Systems Biology
  - Plant Sciences
  - Zoology
  - Physiology, Development & Neuroscience

Selected students can follow either of the paths below and attain degrees from both HKU & Cambridge in 4-5 years:

1. Students will study Science subjects in Year 3 to get prepared for the specialisation in Year 4.
2. Students who do NOT opt for a Master’s degree at Cambridge will take extra research internships at HKU to fulfill the University’s graduation requirements.
3. Students will pay HKU fees and Cambridge fees for their study at HKU and Cambridge, respectively.

Remarks:

- Regular major will be listed on transcript when conferring BSc(HKU) to 6688 students.
- The MA is conferred by right on holders of the BA degree at Cambridge, upon application after certain years’ seniority as members of Cambridge.

Earning 3-4 degrees upon successful completion of 2 years of studies at HKU and 2-3 years of studies at Cambridge

Study Path:

- HKU Undergraduate Degree
  - Available for students majoring in: Biological Sciences, Chemistry, Earth Sciences, Earth System Science, Ecology & Biodiversity, Environmental Sciences, Geology, Molecular Biology & Biotechnology
  - Specialisation for a Natural Sciences degree at Cambridge in year 4:
    - Physical Sciences
    - Biological & Biomedical Sciences
    - Earth Sciences
    - Biochemistry
    - Astrophysics
    - Chemistry
    - History and Philosophy of Science
    - Materials Science
    - Physics
    - Systems Biology
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- Cambridge Undergraduate Degree
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    - Physical Sciences
    - Biological & Biomedical Sciences
    - Earth Sciences
    - Biochemistry
    - Astrophysics
    - Chemistry
    - History and Philosophy of Science
    - Materials Science
    - Physics
    - Systems Biology

Admissions of Students on the Cambridge-track to YSS

- Conditional offer
- Satisfying the requirements
- Firm offer by the end of year 2

Selected students can follow either of the paths below and attain degrees from both HKU & Cambridge in 4-5 years:

- 2 years at HKU
- 2 years at Cambridge
- Cambridge-track at YSS
- Natural Sciences Tripos at Cambridge
Articulation Pathways

Seamless articulation to widely recognised postgraduate programmes

Doctor of Veterinary Medicine (DVM)
@ University of Melbourne (UoMelb)

Pathway to talented students who aspire to pursue a career in veterinary

- In collaboration with University of Melbourne (UoMelb) in Australia, HKU Science provides a pathway to 6901 BSc students of the following majors to articulate into the DVM of the UoMelb:
  - Biochemistry
  - Biological Sciences
  - Ecology & Biodiversity
  - Molecular Biology & Biotechnology
  - Food & Nutritional Science

- Credits obtained during the first year of DVM at UoMelb can be transferred to HKU as electives for fulfilling the credit requirements of the BSc programme (subject to relevant HKU regulations)

- Obtain 2 degrees from the 2 universities in as fast as 7 years
  - the HKU BSc degree and the DVM in UoMelb

- Quota: A maximum of 5 places annually

- Programme fees: Students will pay HKU fees and UoMelb fees for their study at HKU and UoMelb, respectively

- Career aspects: Graduates can register as veterinary surgeons and practise in HK through Veterinary Surgeons Board of Hong Kong and in many countries such as Australia, UK and US

Taught Postgraduate Programmes
@ HKU Science

- Attach HKU Bachelor Programmes to HKU Science Taught Master Programmes

Full-time study mode of 1 year or 1.5 years

<table>
<thead>
<tr>
<th>1 year</th>
<th>1.5 years</th>
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<tbody>
<tr>
<td>HKU 6901 Bachelor of Science</td>
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<tr>
<td>HKU BSc</td>
<td>HKU BSc</td>
</tr>
<tr>
<td>HKU BSc + UoMelb DVM articulation pathway to the Doctor of Veterinary Medicine at the University of Melbourne</td>
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<tr>
<td>Optional</td>
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</table>

- Requirements for selected HKU Science undergraduate students
  - Successful completion of a minimum of 6 semesters
  - Gaining 186 credits under BSc 6901 programme

- Guaranteed admission to selected outstanding students
  - Provides a convenient channel of specialised training for deepening knowledge in specific fields of science

- Application requirements
  - Students who have completed year 3
  - With a CGPA of 3.5 at graduation
  - Fulfilment of the MSc/ MStat/ MDASC admissions requirements

- Quota
  - No quota for the aforementioned articulation pathway except that for Master of Data Science, a maximum of 2 places will be offered each year

Remark: the list of taught postgraduate programmes for this articulation pathway is subject to change

About DVM @ UoMelb

- Renowned university in the global arena
- Its DVM programme ranks 21st in Veterinary Science of QS World University Rankings 2022
- Accredited by Australasian Veterinary Boards Council Inc. (Australia), American Veterinary Medical Association (USA) and Royal College of Veterinary Surgeons (UK)
Minor in Science Entrepreneurship

Opening the doors to entrepreneurship

AIMS

- Broadening the horizon of our undergraduate students with respect to entrepreneurship
- Offering more competitive edges to our students by connecting their academic knowledge with the real world
- Bringing students huge insights through critical analysis of existing enterprises’ operation
- Co-taught by other Faculties such as Faculty of Business and Economics
- Mentorship by entrepreneurs or senior staff in industry/business

HIGHLIGHTS

- Strong emphasis on practical experience: Internship - Capstone project
- Mentorship by entrepreneurs or senior staff
- Incorporates new courses tailor-made for this Minor such as organisational behaviours, leadership, principles of technology entrepreneurship, science-based innovation development, strategic marketing and user analysis

MORE

- Co-taught by other Faculties such as Faculty of Business and Economics

Accreditations

Quality assured through recognition by international professional bodies

- Royal Society of Biology, UK
- Royal Society of Chemistry, UK
- The Geological Society, UK

Undergraduate Research Experiences

- Overseas Research Fellowship (ORF):
  - North America:
    - California Institute of Technology
    - Columbia University
    - Cornell University
    - MIT
    - Stanford University
    - University of California at Berkeley
    - University of California at Los Angeles
  - Europe:
    - CERN
    - University of Cambridge
    - University College London

- Summer Research Fellowship (SRF)
- Undergraduate Research Colloquium
- Final-year projects
- Directed studies

Learning Experiences

- Internships
  - Opportunities in:
    - Government bodies
    - Scientific laboratories
    - Non-government agencies / NGOs
    - Commercial companies

- Field Trips
  - Examples of field trip destinations:
    - Australia
    - Thailand
    - Japan
    - USA
    - Kenya

- International Exchange Studies
  - Over 300 partner universities in more than 40 countries, including:
    - North America:
      - University of California
      - The University of Chicago
      - Columbia University
      - Johns Hopkins University
      - Stanford University
      - Yale University
    - Europe:
      - University of Cambridge
      - University of Oxford
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Accreditations

- Royal Society of Biology, UK
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- The Geological Society, UK

- Hong Kong Institute of Qualified Environmental Professionals, Hong Kong
  - The Environmental Science Major has been conferred the accreditation
  - Students need to complete 7 specific advanced courses for the accredited pathway and can enrol in HKIQEP’s Student Membership during their study at HKU
  - Students who graduate on the HKIQEP accredited programme will have a fast-track to Professional Membership (only 5 years of work experience needed after the degree)
  - Be exempted from certain portions of the Professional Assessment

- Quality assured through recognition by international professional bodies

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Science Master Class
Learn from the Best Minds
Be Inspired by Our Science Masters

Programme Information

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</tr>
</tbody>
</table>

Class schedule
- Full-time

Academic advising
- Students in the programme will be given individual advice to properly plan their study
- Each student will be assigned an academic adviser at the start of the study to guide them through the whole study

Tuition fees
- Local: HKD 42,000/year
- Non-local: HKD 192,000/year

HKD 120,000* (full course)

* Scholarships will be provided to cover at least 50% of the tuition fee of the MRes programme

Bachelor of Science
Master of Research

Fast-track for completing 2 degrees
Caters specifically to the needs of science-inclined students, with more learning opportunities, intensive training and inspirations

Research-oriented
Research postgraduate courses and research projects to enhance students' scientific knowledge and research skills

Catering to the needs of elite students
Educational opportunities available in our flagship Young Scientist Scheme (YSS) including:
- Summer Research Fellowship
- Overseas Research Fellowship
- A chance to join the Cambridge track
- Exchange Scholarship

Learning from Science Masters
Grand Masters through special tutorials
Masters as academic advisers

What You Will Learn

Where this Programme Will Lead You To

Professional recognition
- 5 Intensive Majors* full accreditation requirements of various societies in the UK
- Biological Sciences (MRes)
- Ecology & Biodiversity (MRes)
- Molecular Biology & Biotechnology (MRes)
- Chemistry (MRes)
- Geology (MRes)

Career development & network
- Nurtures students who intend to pursue research in science
- After completing the BSc and the MRes, students will be fully equipped to further pursue graduate studies in prominent universities overseas or in HKU
- Builds a consortium of young researchers for cross fertilisation of innovative ideas and facilitate possible multidisciplinary projects

Transferable skills
- Provides students with extensive subject knowledge and specialised training
- Nurtures a scientifically literate population to formulate solutions for challenges
Bachelor of Science & Bachelor of Laws

Nurtures professionals with scientific and legal knowledge in a STEM-driven society

What the Programme Covers

- Foundational legal concepts and systematic honing of professional skills such as critical thinking, analytical and problem-solving skills, etc.
- Valuable experiential learning opportunities
  - Mooting competitions
  - Clinical legal education
- Cross-disciplinary knowledge, analytical and evaluation skills
- Independent research experience with original thinking
  - Research projects
  - Field camps and Project-based courses
- Work experience
  - Internships
  - Placements

What You will Learn

<table>
<thead>
<tr>
<th>Year</th>
<th>Science</th>
<th>Law</th>
<th>Law and science interdisciplinary electives</th>
<th>University Education</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>18</td>
<td>36</td>
<td>–</td>
<td>6</td>
<td>58</td>
</tr>
<tr>
<td>2</td>
<td>18</td>
<td>30</td>
<td>–</td>
<td>12</td>
<td>60</td>
</tr>
<tr>
<td>3</td>
<td>18</td>
<td>30</td>
<td>–</td>
<td>12</td>
<td>60</td>
</tr>
<tr>
<td>4&amp;5</td>
<td>42</td>
<td>60</td>
<td>12</td>
<td>6</td>
<td>120</td>
</tr>
</tbody>
</table>

Disciplinary courses in Science, including capstone course
Compulsory courses, interdisciplinary core courses, capstone course, disciplinary electives
Law and science interdisciplinary electives
Core University English, Practical Chinese for Science students, Common Core Courses and Non-credit Bearing Requirement

Where this Programme will lead you to

- Transferable skills
  - Provides students with extensive subject knowledge and specialised training in law
  - Nurtures a scientifically literate population with legal knowledge to formulate solutions for challenges

Articulation

- Eligible to apply for the Postgraduate Certificate in Laws (PCLL) after completing the double degree programme
- In a position to apply for other postgraduate programmes in law or science

Career paths

- Continue to pursue Postgraduate Certificate in Laws (PCLL)
- Graduate with BSc&LLB double degree

- Further studies in science
- Professional qualifications in business management, accountancy, corporate administrations, etc.

Entrepreneurs in biotechnology industry
Researchers in the fields of science or law
Educational institutions
Government or regulatory officials handling intellectual property/technology-related matters

Community, social & personal services
Environmentalists

Professional qualifications in business management, accountancy, corporate administrations, etc.

Solicitors, barristers, in-house counsel (specialising in intellectual property/technology-related matters)
The Programme

• Provides specialist academic and professional training in actuarial science
• Prepares students for professional examinations to Associateship level
  – UK – Institute and Faculty of Actuaries
  – North America – Casualty Actuarial Society and Society of Actuaries
• Accredited by professional body, where graduates will be exempted from various professional examinations (subject to re-accreditation)
  – UK – Institute and Faculty of Actuaries
  – North America – Society of Actuaries
• Offers courses with Validation by Educational Experience (VEE)
  – North America – Casualty Actuarial Society, Society of Actuaries and Canadian Institute of Actuaries
• Internship opportunities with major insurers, actuarial consulting firms, reinsurers, investment firms, auditing firms and management consulting firms

Unique Features

• Specialisation: The ONLY programme in Hong Kong accredited by Institute and Faculty of Actuaries
• Professional recognition: The Department of Statistics & Actuarial Science has been designated a Centre of Actuarial Excellence by the Society of Actuaries since 2011
• Career prospects: Abundant career opportunities in Hong Kong and mainland China. Graduates develop their careers in major insurance and reinsurance companies, actuarial consulting firms and investment banks

Dr Patrick S C Poon Scholarship in Actuarial Science

• 5 scholarships are awarded annually to freshly-admitted first year students with outstanding entrance records, each at HK$50,000 or HK$60,000
• Renewable based on satisfactory performance in each year’s study in the programme

Bachelor of Science in Actuarial Science

A gateway to the actuarial profession with internationally recognised qualification

The Programme

• Highlights diverse AI applications to help students to develop intellectual capacity for meeting new challenges
• Emphasises problem-based learning with a wide range of courses: computer science, geography, mathematics, psychology, statistics and urban studies
• Delivers both fundamental and practical knowledge in the design and construction of intelligent systems to fit into different career settings
• Nurtures students to transfer interdisciplinary scientific knowledge into a range of integrated applications and technological innovations

Unique Features

• Interdisciplinary programmes for elite students: Provides formal academic training to elite students who wish to join the AI profession
• Featured concentrations:
  – Technology
  – Business and finance
  – Smart city
  – Medicine
  – Neurocognitive science
• Career prospects in diverse areas: Science and technology, environmental protection, medical informatics, health care, business, banking, finance, urban development, neurocognitive science, etc.
• Interdisciplinary training: Facilitates a coordinated approach in collaboration with the Faculties of Engineering, Social Sciences and Architecture

Bachelor of Arts and Sciences in Applied Artificial Intelligence

Impacts the world with the limitless power of AI

The Programme

• Highlights diverse AI applications to help students to develop intellectual capacity for meeting new challenges
• Emphasises problem-based learning with a wide range of courses: computer science, geography, mathematics, psychology, statistics and urban studies
• Delivers both fundamental and practical knowledge in the design and construction of intelligent systems to fit into different career settings
• Nurtures students to transfer interdisciplinary scientific knowledge into a range of integrated applications and technological innovations

Unique Features

• Interdisciplinary programmes for elite students: Provides formal academic training to elite students who wish to join the AI profession
• Featured concentrations:
  – Technology
  – Business and finance
  – Smart city
  – Medicine
  – Neurocognitive science
• Career prospects in diverse areas: Science and technology, environmental protection, medical informatics, health care, business, banking, finance, urban development, neurocognitive science, etc.
• Interdisciplinary training: Facilitates a coordinated approach in collaboration with the Faculties of Engineering, Social Sciences and Architecture

Curriculum Structure

<table>
<thead>
<tr>
<th>UNIVERSITY EDUCATION</th>
<th>PROGRAMME CORE</th>
<th>NON-CREDIT BEARING REQUIREMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Language Courses</td>
<td>Disciplinary Courses</td>
<td>Capstone Course</td>
</tr>
<tr>
<td>Common Core Courses</td>
<td>Concentration &amp; Electives</td>
<td></td>
</tr>
<tr>
<td>36 credits</td>
<td>132 credits</td>
<td>90 credits</td>
</tr>
<tr>
<td>18 credits</td>
<td>2nd MAJOR / MINOR(S) / ELECTIVES</td>
<td></td>
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<tr>
<td>36 credits</td>
<td>54 credits</td>
<td></td>
</tr>
<tr>
<td>2nd MAJOR / MINOR(S) / ELECTIVES</td>
<td></td>
<td></td>
</tr>
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<td>*Additional credits required</td>
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<td>90 credits</td>
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<td></td>
</tr>
</tbody>
</table>
The Programme
- Co-offered by the Faculties of Social Sciences, Arts, and Science
- Designed for intellectually ambitious students who want to develop a broad set of scholarly skills in order to become leaders across a diverse range of fields to meet important global challenges
  - Social intelligence
  - Creative problem-solving
  - Analytical skills
  - Communication skills
  - Ethical responsibility
  - Interdisciplinary perspective in understanding our world

Unique Features
- Interdisciplinary major: Students take disciplinary courses from the 3 Faculties and also elective courses within 2 pathways:
  - Cultural studies, history, philosophy, language, literature, creative & performative arts
  - Physics, chemistry, biology, nutrition, ecology, evolution, planet, energy & environment
- Developing intellectual toolkit:
  Learn how to intertwine knowledge from various disciplines and integrate them together through
  - Case studies
  - Capstone learning
  - Experiences of thought leaders in professions
- Career prospects:
  Wide career prospects in government, management consultancy, public relations, banking, public policy, environmental services, museums, heritage or science writing/ journalism and non-governmental organisation work, etc.

The Programme
- 5-year Double Degree Programme
- Offered jointly by the Faculty of Education and the Faculty of Science
- Integrated programme offering both academic and professional studies
- Requires students to complete 300 credits of course units including:
  - Science courses to fulfil the requirement of a Science Major
  - Education professional core courses with the Faculty of Education

Unique Features
- Professional training:
  - Incorporates a graduate teaching qualification equivalent to a BSc plus a Postgraduate Diploma in Education
  - Pedagogy courses and Teaching Practice in Hong Kong secondary schools
- Career prospects:
  - Thorough knowledge of Science subject, broad understanding of educational issues, and high level classroom expertise prepare graduates for teaching Science at all levels in local secondary and international schools
  - Graduates also find employment opportunities in industrial and government sectors in which BSc graduates are often employed
HKU ranks #10 in QS World Graduate Employability Rankings 2022

**Career Prospects**

Some of our graduates’ first employers

- [HKU](#)
- [Columbia](#)
- [McGill](#)
- [UBC](#)
- [MIT](#)
- [Princeton](#)
- [Stanford](#)
- [UC Berkeley](#)
- [Cambridge](#)
- [London](#)
- [Harvard](#)
- [Texas](#)
- [Illinois](#)
- [SLAC](#)
- [UC San Diego](#)
- [Oxford](#)
- [Hong Kong](#)
- [Morgan Stanley](#)
- [DBS](#)
- [L’Oreal](#)
- [KPMG](#)
- [Prudential](#)
- [Commerzbank](#)
- [Morgan Stanley](#)
- [Dentsu Aegis Network](#)
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### JUPAS Applicants

Minimum programme entrance requirements:

<table>
<thead>
<tr>
<th>Programme</th>
<th>Level 3</th>
<th>Level 2</th>
<th>Level 2</th>
<th>Level 3</th>
<th>Liberal Studies</th>
</tr>
</thead>
<tbody>
<tr>
<td>6901 BSc &amp; 6119 BEd&amp;BSc</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Level 3 in 2 subjects^1</td>
</tr>
<tr>
<td>6688 BSc&amp;MRes</td>
<td>Level 5</td>
<td></td>
<td></td>
<td></td>
<td>Level 3 in 2 Science or 1 Science + M1/M2 subjects^2</td>
</tr>
<tr>
<td>6858 BSc&amp;LLB</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 2</td>
<td></td>
<td>Level 3 in 2 subjects^1</td>
</tr>
<tr>
<td>6729 BSc(ActuarSc)</td>
<td>Level 3</td>
<td>Level 4</td>
<td>Level 2</td>
<td></td>
<td>Level 4 in M1/M2 Level 3 in 1 subject</td>
</tr>
<tr>
<td>6224 BASc(AppliedAI)</td>
<td>Level 4</td>
<td>Level 3</td>
<td>Level 2</td>
<td></td>
<td>Level 4 in M1/M2 Level 3 in 1 subject</td>
</tr>
<tr>
<td>6212 BASc</td>
<td>Level 5</td>
<td>Level 3</td>
<td>Level 2</td>
<td></td>
<td>Level 3 in 2 subjects^4</td>
</tr>
</tbody>
</table>

Elective Subjects: Category A subjects and Extended Module 1 or 2 in Mathematics (M1/M2)

- ^1 One of the elective subjects must be a Science subject: Biology, Chemistry, Physics, Combined Science, or Integrated Science
- ^2 Candidates with level 4 in English Language but with excellent results in Science subjects/ Mathematics will be exceptionally considered on a case-by-case basis
- ^3 Science elective subjects: Biology, Chemistry, Physics and Combined Science
- ^4 Candidates with level 4 in English Language, if admitted, will be required to take 6 additional credits in Core University English to complete their degree studies
- ^+ Candidates with level 4 in English Language and good results in other HKDSE subjects will be exceptionally considered on a case-by-case basis. If these candidates are admitted, they will be required to take 6 additional credits in University English to complete their degree studies
- Level 3 or above in M1/M2 is preferred (but not required)

### Non-JUPAS Applicants

Students holding non-HKDSE qualifications are considered individually

### HKU Undergraduate Admissions

https://admissions.hku.hk

#### BSc, BSc&MRes, BSc&LLB, BSc(ActuarSc) & BASc(AppliedAI): Faculty of Science

- [www.scifac.hku.hk/prospective/ug](http://www.scifac.hku.hk/prospective/ug)
- 3917-2683
- sci.ug.admission@hku.hk

#### BEd&BSc: Faculty of Education

- [web.edu.hku.hk/programme/bedbsc_6119](http://web.edu.hku.hk/programme/bedbsc_6119)
- 3917-4659
- bedbsc@hku.hk

#### BASc: Faculty of Social Sciences

- [www.socsc.hku.hk/basc/](http://www.socsc.hku.hk/basc/)
- 3917-1212
- socscug@hku.hk