Department of Physics
Bachelor of Science in Applied Physics
Bachelor of Science in Applied Physics

JUPAS Code: JS1208

The Applied Physics major is not an ordinary Physics major. In Applied Physics, students are taught biomedical physics, quantum physics, computational physics, and lasers and optics, paving their way to a diversified careerpath including medicine and health care, education, engineering, commercial and industrial sectors, nuclear radiation facilities or postgraduate study.

Students may take part in the department-based research attachment scheme, which provides them early exposure to discovery and innovation. Students of the Applied Physics major who meet certain requirements can apply for admission to the Joint Bachelor’s Degree Program between City University of Hong Kong and Columbia University in USA. Students admitted to the Joint Degree Program spend their third and fourth years at Columbia University in USA, and earn a BSc degree from CityU and a BA degree from Columbia University.

Professional Careers Prospects

- Medical Physicists
- Biomedical Engineers
- Financial Engineers
- Technical Sales
- Education
- Product Certification and Quality Assurance
- Environmental Consultants
- Opportunities in the Public Sector (e.g. the Hong Kong Observatory, the Environmental Protection Department and the Hospital Authority)

Our Minors

- Physics
- Photonics

For further details about our programme structure and other information, please visit our website: http://www.cityu.edu.hk/phy
WE ENCOURAGE
Discoveries and Innovations

Student Exchange

- University of Illinois at Urbana-Champaign, USA
- Umeå University, Sweden
- University of London, UK
- National Taiwan University, Taiwan

Study Tour

- Singapore
- Japan

Undergraduate Research Attachment Scheme

- Early research exposures as young scientist

Distinguished Final Year Project Awards

- Our high performers in their final year project discoveries, report writing and presentation

WE PROMOTE PHY Community

Internship Opportunities

- Besides the internship opportunities offered by the College, PHY offers final year project attachment to medical physics departments in local hospitals.

Student Support Network

- Each new student will be paired with one Academic Advisor and one Student Mentor

PHY Annual Symposium

- Celebration of students’ and faculties’ achievements

- Research Showcase by Students

- Overseas Speakers

Student Connect - Departmental Tea Gathering

Career Talk
Admission Route

HKDSE Students

JUPAS

BSc – Applied Physics (Year 1)
- Gateway Education Courses
- College/Department Core Courses
- Career Guidance Courses

BSc – Applied Physics (Year 2-4)
- Biomedical Physics
- Quantum Physics
- Computational Physics
- Lasers and Optics

Entrance Requirements for JUPAS Applicants

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Level 3 in one elective subject from:
- Chemistry
- Combined Science (Biology and Physics)
- Combined Science (Chemistry and Physics)
- Design and Applied Technology
- Physics

Level 3 in any elective subjects

For further details about entrance requirements and application procedures, please visit the website of our Admissions Office: http://www.admo.cityu.edu.hk/

Scholarships

The Department of Physics Undergraduate Entrance Scholarships

Undergraduate students who are admitted to the Bachelor of Science in Applied Physics program through the JUPAS route with an admission score (non-weighted 4+2) of 26 or above will be automatically considered for the scholarships. Each scholarship awardee will receive up to $40,000 which is payable in Year 1 and 3.

PHY Education Fund Scholarships

In addition to the institutional and external scholarships, PHY Education Fund Scholarships (department-based scholarship) are awarded to undergraduate students with outstanding academic performance and active participation in Departmental service.

Phone: (852) 3442-7831
Fax: (852) 3442-0538
Email: phy.go@cityu.edu.hk
Website: http://www.cityu.edu.hk/phy