The College of Science (CSCI), comprising the Department of Chemistry, Mathematics and Physics, aspires to become a world-renowned hub for pioneering scientific research and innovation, and quality teaching and learning in multiple disciplines of science for the betterment of society.

World Recognitions

31st in Mathematics
Performance Ranking of Scientific Papers for World Universities by National Taiwan University Ranking, 2019

Top 100 in Mathematics
Quacquarelli Symonds (QS) World University Rankings, 2019

Top 100 in Mathematics
Academic Ranking of World Universities (ARWU), 2019

Top 150 in Chemistry
Academic Ranking of World Universities (ARWU), 2019
Bachelor’s Degree

**Department of Chemistry**

**Chemistry**

This major provides students with a firm foundation in chemical sciences with a focus on analytical chemistry, environmental chemistry, inorganic chemistry, organic chemistry, and physical chemistry. Students are also offered a wide range of elective courses such as biochemistry, computational chemistry, cosmetic chemistry, food chemistry, industrial chemistry, green chemistry, materials chemistry, and medicinal chemistry. The major puts strong emphasis on discovery-enriched curriculum, out-of-classroom activities, and independent learning. Thus, students have the opportunity to undertake a directed study, project, local and non-local internship and exchange program. The major is designed to train and produce graduates who are able to pursue a developing career in local and regional industrial, commercial, government, education, and research sectors.

**Department of Mathematics**

**Computing Mathematics**

The Department of Mathematics offers the Bachelor of Science in Computing Mathematics, which aims at equipping students and producing graduates with a strong background in data analysis, mathematical modelling, scientific computing and technical computer software. Graduates will make contributions to finance and industry in the growing technology fields in Hong Kong such as biotechnology, data analysis, environmental science, information technology and intelligent business. The title of “Computing Mathematics” has been chosen as the major will focus on applied areas of mathematics linked to computing and computation.

**Department of Physics**

**Applied Physics**

The Applied Physics major is not an ordinary Physics major. In Applied Physics, students are taught biomedical physics, renewable energy and quantum physics, paving their way to a diversified career path 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 an 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 at the end of their study.
4-year degree students in eligible majors (including Applied Physics and Computing Mathematics in the College of Science) with outstanding academic performance may apply for the Joint Bachelor’s Degree Program. Students will spend two years at CityU and two years at Columbia University. On successful completion of the curriculum requirements, they will earn two bachelor’s degrees from the two universities.

Eligibility
- Studying a 4-year degree programme of the majors concerned.
- Complete at least 30 credits in Year 1 with a CGPA of 3.30 or above.
- Fulfill one of the following English language requirements:
  - TOEFL – a minimum total score of 100 in the Internet-based test
  - IELTS – a minimum overall band score of 7.0

Tuition Fee
Joint Bachelor’s Degree Program students will pay tuition fee to the institution that they are attending.

cityu-hk.gs.columbia.edu
Diverse Learning Experiences

- Classroom learning
- Research
- International exchange studies
- Career preparation and internship schemes
- Overseas study tours
- Grand Challenges Scholars Program (GCSP)

College of Science
- Department of Chemistry (CHEM)
- Department of Mathematics (MA)
- Department of Physics (PHY)

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