Our Major

Bachelor of Engineering in Materials Science and Engineering

The role of materials in our society is much more influential than most of us have realized. Our lives would be endangered by storms in the absence of dependable concrete and steel structures. Our visual defects cannot be easily corrected without glass and high refractive index scratch resistance polymers. The launching of satellites and space shuttles would not be possible without heat-resistant materials and semiconductors. Our comfortable lives are intimately associated with the discovery, selection and processing of natural and synthetic materials. Materials Engineering deals with the advancement in our understanding and manipulation of materials, which is always the forerunner to the progression of technology.

What is Materials Science and Engineering?

The Materials Science and Engineering major is the first and currently the only Materials Engineering degree in Hong Kong accredited by the Hong Kong Institution of Engineers (HKIE).

Professional Recognition

- Physics
- Biology
- Chemistry
- Engineering
- Materials Innovation (Design & Process)

For further details about our programme structure and other information, please visit our website: http://www.cityu.edu.hk/mse
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Our Graduates and Career Prospects

Professional Careers

Materials Science and Engineering Graduates
♦ Materials Engineers
♦ Quality Control Engineers
♦ Production Engineers
♦ Laboratory Managers
♦ Research & Development Engineers
♦ Engineering Sales Managers for high-ended equipment and sophisticated materials
♦ Specialists in electronics, plastics, metals, ceramics and construction industries

Employers

AEM Technology Hong Kong Limited
APMTD
ASM Assembly Automation Ltd
ASM Pacific Technology
ATAL Engineering Ltd.
Bank of China (Hong Kong) Ltd
Beckman Coulter Hong Kong Ltd.
Blue Ocean Innovation Limited
Bright Future Pharmaceutical Laboratory Ltd
Build King Construction Limited
Building Diagnostic Consultants Ltd
Bureau Veritas Hong Kong Limited
Cathay Pacific Services Limited
Cathay Photonics
Chi Instrumentation Ltd
Core Tech
Cyber World Forwarder
GIA Hong Kong Laboratory Limited
Hang Seng Bank Limited
Health Care
Herald Metal & Plastic Works Ltd
Hi Tak Swimming Pool & Fountain Engineering Company Limited
HKSAR Govt - Hong Kong Police Force
HKSAR Govt - Immigration Department
Hong Kong Aircraft Engineering Company Limited
Hong Kong Aviation Ground Services Limited
Intertek Testing Services Hong Kong Ltd
Jinchat Engineering Co Ltd
Kent’s Construction & Engineering Company
Kone Elevator
La Prairie Hong Kong Ltd
Max Fortune Industrial Ltd.
Modern Terminals Limited
Nano and Advanced Materials Institute Limited
Neo Bern
Nestle Hong Kong Ltd
Nixon Technology Company Limited
On Board Marine Group Ltd
Orientfunds Precast Ltd
OTIS Elevator Co.
Pacific Century Cyberworks Limited (PCCW)
Pacificnet Hosting Limited
PAURUS
Regal Oriental Hotel
S&Y Engineering (HK) Limited
SAE Magnetic Co Ltd
School of Creativity
Siemens HK Ltd
Soils & Material Engineering Co., Ltd
Success Base Engineering Ltd
Sunciti Manufacturer Ltd
Sythy Media
Teltec Semiconductor Pacific
The Lab (Asia) Limited
Toly Asia Ltd
Topo
Tsuen Wan Catholic Primary School
Way Lo Engineering Co., Ltd
喜爾麗工程有限公司
Innovative Learning Experience

Study Tour

Exploration of Advanced Functional Materials and Their Technological Applications in Japan

Student Exchange and Internship

University of Oxford, Oxford

Brunel University, London

Student Activities

Discovery-Enriched Projects - Mosquito Killer Bin

Young Persons’ Lecture Competition (Hong Kong Heat)
2nd runner-up, Miss LAW Po In

Discovery-Enriched Projects - Water Cubic Purifier
Admission Routes

**HKGSE Students**
- JUPAS
  - JUPAS Code: JS1210
  - BEng – Materials Science and Engineering

**Non-HKGSE Students**
- Direct Application (Non-JUPAS)
  - Non-JUPAS Code: 1210
  - BEng – Materials Science and Engineering

**BEng-Materials Science and Engineering (Year 1)**
- Gateway Education Courses
- College/Department Core Course

**13-year School-leaving Qualification Holders**
(e.g. IB Diploma, GCEAL)

**Admission with Advanced Standing**
Depending on the qualification, students will be admitted to Year 2 or 3 of the 4-year curriculum

**BEng – Materials Science and Engineering (Year 2-4)**
- Properties of Conventional & Advanced Engineering Materials
- Material Testing
- Examination Techniques and Failure Analysis
- Processing of Modern & Advanced Materials

**Admission Requirements**

- Satisfy the Minimum Entrance Requirements of the University with a Science or Engineering background; OR
- Associate Degree or Higher Diploma Holder in a relevant discipline or other technical qualifications; OR
- 13-year School-leaving Qualification Holder (e.g. IB Diploma, GCEAL)

For further details of entrance requirements and application procedure, please visit the website of our Admission Office: http://www.admo.cityu.edu.hk/
HKDSE Students

JUPAS Direct Application (Non-JUPAS)

Non-HKDSE Students

BEng – Materials Science and Engineering (Year 1)

• Gateway Education Courses
• College/Department Core Course

BEng – Materials Science and Engineering (Year 2-4)

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Depending on the qualification, students will be admitted to Year 2 or 3 of the 4-year curriculum.

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Associate Degree/Higher Diploma Holders

JUPAS Code: JS1210

BEng – Materials Science and Engineering

Non-JUPAS Code: 1210

BEng – Materials Science and Engineering

Non-JUPAS Code: 1640A

BEng – Materials Science and Engineering

Admission Routes

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