

BME Curriculum

Total Units Requirements: at least 123 units			
	Major Programme Requirements (75 units)	University Core Requirements (39 units)	Free Electives* * Units for free electives can be used to fulfil the minor requirement
Year 4 or 5	Graduation Project Electives for BME Streams	English	
Year 4	One-year Work-study Programme (optional)	Chinese	
Year 3	Advanced BME Major Courses Biomaterials and Tissue Engineering, Medical Instrumentation and Design, Global Medical Device Regulations	General Education Physical Education	
Year 2	Fundamental BME Major Courses Anatomy and Physiology, Biomechanics, Cell and Molecular Biology, Circuits and Signals, Engineering Mathematics	IT# # The 1-unit course will be exempted for Engineering graduates	
Year 1	Engineering Foundation Biology / Chemistry / Physics, Engineering Mathematics, Programming		

Biomedical Imaging, Informatics & Modeling

- Bioinformatics
 - Big Data in HealthCare
 - Biomedical Modelling
 - Data Analytics for Personalized Genomics and Precision Medicine
 - Database and Security for Biomedical Engineering
 - Biomedical Imaging Applications
 - Advanced Imaging and Spectroscopy Techniques in Biomedicine
- Recommended to minor in Computer Science, OR Electronic Engineering*

Molecular, Cell & Tissue Engineering

- Cell Biology
 - Genetic Engineering
 - Bionanotechnology
 - Biomolecular Engineering
 - BioMEMS
 - Biofluids
 - Musculoskeletal Tissue Engineering
- Recommended to minor in Biology, OR Biochemistry*

Streams

Medical Instrumentation & Biosensors

- TeleMedicine & Mobile Healthcare
- Cardiovascular Engineering
- Biofluids
- Bionanotechnology
- Neuroengineering
- Microelectronic Devices and Circuits
- Medical Robotics
- Introduction to Digital and Microprocessor Systems
- Body Sensor Networks
- Advanced Imaging and Spectroscopy Techniques in Biomedicine
- BioMEMS

Recommended to minor in Electronic Engineering, Mechanical & Automation Engineering, OR Physics

BME + Business Administration Double-Degree Programme

- 1st degree: Bachelor of Engineering (Biomedical Engineering)
 - 2nd degree: Bachelor of Business Administration (Integrated BBA Programme)
 - Collaborated with the Faculty of Business Administration
- For further information, please refer to the Faculty website at <http://www.erg.cuhk.edu.hk/erg/ergbba>*

BME Minor Programme

- Students can take up to two minors programmes
- 18-30 units for each minor programme