

College of Engineering

工學院

Department of Systems Engineering

系統工程學系



香港城市大學
City University of Hong Kong

Bachelor of Engineering in Innovation and Enterprise Engineering

工學士 (創新與企業工程)



Student Handbook
2025-2026

(Please note that the information given in this Handbook is accurate at the time of printing in August 2025. Changes to the information may be made from time to time without prior notification.)

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**BACHELOR OF ENGINEERING IN
INNOVATION AND ENTERPRISE ENGINEERING
(BENG IEEG)**

Student Handbook (2025-2026)

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1 AIMS OF MAJOR

The major aims to prepare our students for successful careers in engineering innovation and enterprise which are identified as a key component for Hong Kong's future planning and growth. Our curriculum allows students to further specialize in different areas of expertise including industrial Internet-of-Things, smart city, logistics and supply chain, robotics and automation. Our programme also has a placement component that allows students to gain real world experience, which will provide a significant edge when students look for employment after graduation.

Intended Learning Outcomes of Major (MILOs)

Upon successful completion of this Major, a BENG IEEG graduate should be able to:

1. Have an understanding of the scientific principles and applications of innovation and enterprise engineering.
2. Gain basic knowledge in relevant areas, including engineering enterprise, risk management, financial engineering, logistics and supply chain management, system modelling, management science, technology innovation, optimisation, statistics and reliability.
3. Gain laboratory experience with intelligent systems and engineering projects.
4. Develop necessary problem-solving capability and software skills.
5. Acquire the ability to formulate and solve real intelligent system and enterprise engineering problems and provide high-quality solutions.
6. Acquire work-related experience and effective communication skills.
7. Meet the required levels and standards of professional engineers.

2 DEGREE REQUIREMENT

2.1 Minimum Number of Credit Units Required for the Award

Degree Requirement	Normative 4-year Degree
Gateway Education requirement	31 credit units
College/School requirement	6 credit units
Major requirement	48 credit units (Core: 27 Elective: 21)
Free electives / Minor (optional)	36 credit units
Minimum number of credit units required for the award	121 credit units

Maximum number of credit units permitted	144 credit units
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Normal Period of Study

	Normative 4-year Degree
Normal period of study	4 years
Maximum period of study	8 years

2.2 Gateway Education

(Please refer to

https://www.cityu.edu.hk/catalogue/ug/current/catalogue/catalogue_UC.htm?page=B/ge_requirement.htm)

	Normative 4-year Degree
<u>University requirements</u>	
English	
• GE1401 University English	3 credit units
• Discipline-specific English	3 credit units
GE1501 Chinese Civilisation – History and Philosophy	3 credit units
GE1601 Whole-Person Development	1 credit unit
<u>Distributional requirements</u>	12 credit units
Area 1: Arts and Humanities	<i>(At least one course from each of the three areas)</i>
Area 2: Study of Societies, Social and Business Organisations	
Area 3: Science and Technology	
<u>College/School-specified courses</u> ^	9 credit units
Total	31 credit units

^College/School-specified Courses for fulfilling the Gateway Education Requirement

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree				
MA1200/ MA1300	Calculus and Basic Linear Algebra I/ Enhanced Calculus and Linear Algebra I	B1	3	
MA1201/ MA1301	Calculus and Basic Linear Algebra II/ Enhanced Calculus and Linear Algebra II	B1	3	
SYE2066	Professional Engineering Practice	B2	3	

2.2.1 English Language Requirement

Normative 4-year degree students and Advanced Standing I students who passed the 6 credit units of specified GE English courses, and Advanced Standing II students who passed the 3 credit units of discipline-specific GE English course are recognized as fulfilling the University's English Language Requirement.

Students scoring below Level 4 in HKDSE English Language or Grade D in HKALE AS-level Use of English or students who do not possess an equivalent qualification are required to complete two 3-credit unit courses, LC0200A English for Academic Purposes 1 and LC0200B English for Academic Purposes 2, prior to taking the GE English courses. Students who demonstrate that they have achieved a grade B or above in their overall course results for LC0200A will achieve 3 credits and also be considered to have satisfied the pre-requisite for entry to the GE English courses without needing to take LC0200B. The credit units of LC0200A and LC0200B will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

2.2.2 Chinese Language Requirement

Students scoring below Level 4 in HKDSE Chinese Language, or below Grade D in HKALE AS-level Chinese Language and Culture will be required to complete a 3-credit unit course CHIN1001 University Chinese I. The 3 credit units will not be counted towards the minimum credit units required for graduation and will not be included in the calculation of the cumulative grade point average (CGPA). However, they will be counted towards the maximum credit units permitted.

2.3 Internship/Consultancy Project/Research Project Requirement

Normative 4-year degree students admitted in 2022/23 and thereafter are required to fulfil the internship/consultancy project/research project requirement in accordance with the requirements stipulated by the respective College/School. The curriculum-related internship courses should be credit-bearing with a minimum of 3 credit units and a minimum internship duration of no less than 4 weeks/160 hours. The consultancy project/research project courses should involve student work (inclusive of timetabled teaching hours) of no less than 160 hours. These courses may be included as part of the College/School requirement or the major requirement as stipulated by the respective College/School (Senate/121/AR9).

2.4 College/School Requirement

Course Code	Course Title	Level	Credit Units	Remarks
Normative 4-year Degree (6 credit units)				
CS1302	Introduction to Computer Programming	B1	3	
PHY1201	General Physics I	B1	3	
Advanced Standing I (0 credit unit)				
College Requirement waived.				
Advanced Standing II (0 credit unit)				
College Requirement waived.				

2.5 Major Requirement

2.5.1 Core Courses

Normative 4-year Degree: 27 credit units

Course Code	Course Title	Level	Credit Units	Remarks
SYE1001	Introduction of Engineering Disciplines	B1	0	
CS2402	Introduction to Computational Probability Modeling	B2	3	
GE2304	Foundations of Innovation and Entrepreneurship	B2	3	
FS2003	Introduction to Intellectual Property	B2	3	
SYE2046	Numerical Computation for Manufacturing and Systems Engineers	B2	3	
FS3002	Industrial Attachment Scheme	B3	3	A course to fulfil the internship/consultancy project/research project requirement for normative 4-year degree students
SYE3060	Operations Research	B3	3	
SYE4024	Project Management	B4	3	
SYE4047	Directed Studies	B4	3	
SYE4108	Product Development and Innovation	B4	3	

2.5.2 Electives

Normative 4-year Degree: 21 credit units

Course Code	Course Title	Level	Credit Units	Remarks
GE1138	Exploring Hong Kong: History, Culture and Society	B1	3	
GE1337	Urban Green City: Pollution and Solution	B1	3	
GE2213	Understanding Uncertainty and Statistical Reasoning	B2	3	
GE2223	Interpersonal Skills and Positive Personal Development	B2	3	
GE2226	Ageing Society: Hong Kong and Beyond	B2	3	
GE2230	Innovation and Entrepreneurship in Global Business	B2	3	

Course Code	Course Title	Level	Credit Units	Remarks
GE2234	Social Networks for Media, Business and Technological Applications	B2	3	
MGT2324	Introduction to Entrepreneurship	B2	3	
SYE3004	Production Planning and Control	B3	3	
CA4192	Sustainable Urbanism	B4	3	
CA4457	Infrastructure Asset Management	B4	3	
FS4002	Industrial Attachment Scheme	B4	3	
MGT4305	Developing and Presenting a Business Plan	B4	3	
SYE4001	Digital Manufacturing and Operations	B4	3	
SYE4005	Industrial Data and Manufacturing Analytics	B4	3	
SYE4007	eLogistics and Supply Chain Management	B4	3	
SYE4008	Computer-Aided Problem Solving for Manufacturing and Systems Engineers	B4	3	
SYE4068/ SYE4068C/ SYE4116	Final Year Project/ Final Year Project/ Capstone Project II	B4	6	

2.6 Optional Courses

Course Code	Course Title	Level	Credit Units	Remarks
FS2002	Industrial Attachment Scheme	B2	3	Minimum 6 weeks
FS4001	Co-operative Education Scheme (CES)	B4	8	Internship (8 to 12 months)
FS4002	Industrial Attachment Scheme	B4	3	Minimum 6 weeks

3 CLASSIFICATION OF AWARD

Bachelor's degrees students will be eligible for graduation if they:

- complete the graduation requirements for the degree,
- achieve a CGPA of 2.00 or above

The University grants bachelor's degree awards with the following classifications based on the CGPAs according to the general guidelines below:

Classification	CGPA
1st Class	CGPA 3.5 or above
2nd Upper	CGPA 3.00 – 3.49
2nd Lower	CGPA 2.50 – 2.99
3rd Class	CGPA 2.00 – 2.49

4 ACADEMIC REGULATIONS AND GUIDELINES

Students should observe the University's academic regulations and guidelines at all times. More information can be available by referring to the following websites maintained by the Academic Regulations and Records Office (ARRO).

ARRO Homepage: <http://www.cityu.edu.hk/arro/>

5 ACADEMIC HONESTY

Academic honesty is central to the conduct of academic work. Students are responsible for knowing and understanding the Rules on Academic Honesty. To enhance students' understanding on academic honesty, all students are required to complete a tutorial on academic honesty and make a declaration on their understanding of this core academic principle online on or before **30 November 2025** in order to access their course grades. For details, please refer to ARRO website: <https://www.cityu.edu.hk/ah/>

6 STUDENT DEVELOPMENT SERVICES (SDS)

The SDS offers many student-centred services to students. It provides support and assistance for students in the following areas:

- Attainment of an all-round development
- Enrichment of campus life
- Development of career plans and choices
- Solving personal problems
- Enhancement of physical and mental well-being
- Provision of financial assistance
- Scholarship application
- Welfare provisions

7 COMMUNICATIONS

Listed below are the normal channels of communication between students and courses / major / department:

- a) Students having difficulties in a course of study should first talk to the course teacher concerned.
- b) A student who wishes to discuss the overall organization of the major should speak to the Major Programme Leader.
- c) A student who wishes to discuss issues on a particular part of the major should speak to the relevant Major Programme Year Tutor.
- d) The major's Joint Staff & Student Consultative Committee helps to facilitate consultation and communication. A student from each entry cohort will be elected to sit in the Committee.
- e) In addition, a student from each entry catalog term will be elected to sit in the Major Programme Committee which meets every semester to discuss major-related matters.
- f) Students should feel free to approach their respective academic advisors for advice regarding their study plan or personal and career development.

8 MAJOR LEADER, YEAR TUTOR AND COORDINATORS

<u>Position</u>	<u>Staff Name</u>	<u>Tel.</u>	<u>Email</u>
Major Leader:	Prof. Andy CHOW	3442-2155	andychow@cityu.edu.hk
Deputy Major Leaders:	Prof. Lorry LUO	3442-7527	ruiluo@cityu.edu.hk
	Prof. Hongyi JIANG	3442-8596	hongyi.jiang@cityu.edu.hk
Year Tutors: 2025 cohort	Prof. Shutian LIU	3442-2268	shutian.liu@cityu.edu.hk
Coordinators:			
Internship coordinator	Dr. Louis LIU	3442-9536	mekpliu@cityu.edu.hk
Exchange coordinator	Prof. Yinghao CHU	3442-4703	yinghao.chu@cityu.edu.hk

9 INFORMATION TO NEW STUDENTS

9.1 How to access your Personal Class Schedule

- i) Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus, then point to “Quick Links” at the top and click “AIMS”. Log onto AIMS.
- ii) Click “Course Registration” menu. Then click “Main Menu for web add/drop”.
- iii) Choose “Weekly Schedule” then select appropriate term and press “Submit”.
- iv) You will find your class schedule in matrix form.
- v) Press the “View Detail Schedule” button at the bottom of your matrix timetable to display details of your class schedule.

9.2 How to get Instructors’ handouts through Canvas

- i) Go to the CityU e-Portal from any terminal on campus or off campus.
- ii) Choose “Canvas” and login.
- iii) Enter the course under “My Courses”. Click “Files”.

9.3 How to check Major Programme Requirement and Course Syllabuses

Log onto the CityU home page and click “Academics”, then “Programme and Course Catalogue”.

9.4 Course Registration for Semester A 2025-2026

For Semester A 2025-2026, students will be pre-registered in required courses and major electives in most cases if possible.

- i) The date for release of your class schedule is **29 July 2025**. Please check your curriculum requirements, review your study plan and then make appropriate adjustments to your pre-registered courses.
- ii) Add/Drop of courses can be made through AIMS during the web registration period.
- iii) For non-web-enabled courses, approval is required from the course offering department. You can submit your request through AIMS starting from **11 August 2025**.

How to do the Add/Drop:

- Go to <http://www.cityu.edu.hk> from any terminal on campus or off campus and click "AIMS".
- Log onto "AIMS" and then click "Course Registration".
- Click "Main Menu for web add/drop".
- Choose "Add or Drop Classes".

- iv) Web registration begins on **25 August 2025** but you need to check your time ticket first from "AIMS".
- v) All add/drops end on **8 September 2025**.
- vi) Detailed arrangements on Course Registration for Semester A 2025-2026 will be available in early August 2025. For details, please refer to ARRO website: https://www.cityu.edu.hk/arro/creg/wadp_main.htm

9.5 How to access your Student Email Account

- i) Go to www.cityu.edu.hk and point to "**QUICK LINKS**" at the top of the screen and select "**Email**".
- ii) In the Email Services home page, click "**@my.cityu.edu.hk**" under the column of "**Student**" to go to **M365 Sign-in Page**.
- iii) At the M365 Sign-in Page, please enter your **CityU EID** and **password** to login.
- iv) You can read and compose mail after signing in.

Important notes:

For email communication:
please state your *student name, number and contact telephone number*.

9.6 Credit Exemption

Applications for course exemption must be made before the first semester of the student's admission. Students granted course exemption are required to take other courses to make up the credits required for fulfilling the award requirements. For Semester A 2025-2026, the application period is from **14 July 2025 to 29 August 2025**. For details, please refer to ARRO website: https://www.cityu.edu.hk/arro/cdtf/cdtf_main.htm

9.7 Safety Orientation

All students are required to complete the online Safety Orientation. The Laboratory Office will hold a Lab Tour session in week 1-2 of Semester A 2025-2026. Details and schedule of the lab tour session will be sent to students by e-mail.

9.8 Administrative Support from SYE General Office

Office Hours

Mon to Fri 9:00am to 5:30 pm
Lunch Break *12:30pm to 1:45pm*

Inquiry: 3442-9321
Fax: 3442-0173
Email: sye.office@cityu.edu.hk

Appendix I : Model Study Path

Model Study Path for BENG IEEG 2025/2026 (normative 4-year) (non-CES mode)

For Reference Only

Yr	Sem	Major Requirements					University Requirements		CUs
2025 / 26 (Year 1)	A	College Specified - MA1200 Calculus and Basic Linear Algebra I (3)	SYE1001 Introduction of Engineering Disciplines (0)	College Requirement - PHY1201 General Physics I (3)	GE2304 Foundations of Innovation and Entrepreneurship (3)	GE1601 Whole-Person Development (1)	English 1 - GE1401 University English (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	16
	B	College Specified - MA1201 Calculus and Basic Linear Algebra II (3)	College Requirement - CS1302 Introduction to Computer Programming (3)	FS2003 Introduction to Intellectual Property (3)			English 2 - Discipline-specific English GE2410 English for Engineering (3)	Gateway Education 1 (3)	15
	S								0
2026 / 27 (Year 2)	A	College Specified - SYE2066 Professional Engineering Practice (3)	SYE4024 Project Management (3)	SYE4047 Directed Studies (3)			Gateway Education 2 (3)	Gateway Education 3 (3)	15
	B	SYE2046 Numerical Computation for Manufacturing and Systems Engineers (3)	CS2402 Introduction to Computational Probability Modeling (3)	SYE3060 Operations Research (3)	SYE4108 Product Development and Innovation (3)			Gateway Education 4 (3)	15
	S	FS3002 Industrial Attachment Scheme (3)							3
2027 / 28 (Year 3)	A	Major Elective 1 (3)	Major Elective 2 (3)	Major Elective 3 (3)	Free Elective 1 (3)	Free Elective 2 (3)			15
	B	Major Elective 4 (3)	Major Elective 5 (3)	Free Elective 3 (3)	Free Elective 4 (3)	Free Elective 5 (3)			15
	S								0
2028 / 29 (Year 4)	A	Major Elective 6 (3)	Free Elective 6 (3)	Free Elective 7 (3)	Free Elective 8 (3)	Free Elective 9 (3)			15
	B	Major Elective 7 (3)	Free Elective 10 (3)	Free Elective 11 (3)	Free Elective 12 (3)				12
() indicates number of credit units							Total credits required = 121		

Note: Students can take Major electives from Year 3 depending on their overall study plan, and some elective courses may be available for study in the evenings only.

Model Study Path for BENG IEEG 2025/2026 (normative 4-year) (Optional CES mode)

Co-operative Education Scheme (CES) is a 2-semester placement programme situated in Year 4 Study (for optional CES mode). The CES comprises two components: final year project and industrial placement at a company. During the training period, students take SYE courses on a day-release basis for no more than one day per week.

Yr	Sem	Major Requirements					University Requirements		CUs
2025 / 26 (Year 1)	A	College Specified - MA1200 Calculus and Basic Linear Algebra I (3)	SYE1001 Introduction of Engineering Disciplines (0)	College Requirement - PHY1201 General Physics I (3)	GE2304 Foundations of Innovation and Entrepreneurship (3)	GE1601 Whole-Person Development (1)	English 1 - GE1401 University English (3)	GE1501 Chinese Civilisation – History and Philosophy (3)	16
	B	College Specified - MA1201 Calculus and Basic Linear Algebra II (3)	College Requirement - CS1302 Introduction to Computer Programming (3)	FS2003 Introduction to Intellectual Property (3)			English 2 - Discipline-specific English GE2410 English for Engineering (3)	Gateway Education 1 (3)	15
	S								0
2026 / 27 (Year 2)	A	College Specified - SYE2066 Professional Engineering Practice (3)	SYE4024 Project Management (3)	SYE4047 Directed Studies (3)			Gateway Education 2 (3)	Gateway Education 3 (3)	15
	B	SYE2046 Numerical Computation for Manufacturing and Systems Engineers (3)	CS2402 Introduction to Computational Probability Modeling (3)	SYE3060 Operations Research (3)	SYE4108 Product Development and Innovation (3)			Gateway Education 4 (3)	15
	S	FS3002 Industrial Attachment Scheme (3)							3
2027 / 28 (Year 3)	A	Major Elective 1 (3)	Major Elective 2 (3)	Major Elective 3 (3)	Free Elective 1 (3)	Free Elective 2 (3)			15
	B	Major Elective 4 (3)	Major Elective 5 (3)	Free Elective 3 (3)	Free Elective 4 (3)	Free Elective 5 (3)			15
	S	Free Elective 6 (3)							3
2028 / 29 (Year 4)	A	Major Elective 6 (3)	Free Elective 7 (3)	Free Elective 8 (3)	Free Elective 9 (3)	CES FS4001 (4)			16
	B	Major Elective 7 (3)	Free Elective 10 (3)	Free Elective 11 (3)	Free Elective 12 (3)	CES FS4001 (4)			16
() indicates number of credit units							Total credits required = 129		

Note: Students can take Major electives from Year 3 depending on their overall study plan, and some elective courses may be available for study in the evenings only.

Model Study Path for BENG IEEG 2025/2026 (normative 4-year) (non-CES Go Global mode)

Yr	Sem	Major Requirements					University Requirements		CU's
2025 / 26 (Year 1)	A	College Specified - MA1200 Calculus and Basic Linear Algebra I (3)	SYE1001 Introduction of Engineering Disciplines (0)	College Requirement - PHY1201 General Physics I (3)	GE2304 Foundations of Innovation and Entrepreneurship (3)	GE1601 Whole-Person Development (1)	English 1 - GE1401 University English (3)	Chinese Civilisation – History and Philosophy (3)	16
	B	College Specified - MA1201 Calculus and Basic Linear Algebra II (3)	College Requirement - CS1302 Introduction to Computer Programming (3)	FS2003 Introduction to Intellectual Property (3)			English 2 - Discipline-specific English GE2410 English for Engineering (3)	Gateway Education 1 (3)	15
	S								0
2026 / 27 (Year 2)	A	College Specified - SYE2066 Professional Engineering Practice (3)	SYE4024 Project Management (3)	SYE4047 Directed Studies (3)	Major Elective 1 (3)		Gateway Education 2 (3)	Gateway Education 3 (3)	18
	B	SYE2046 Numerical Computation for Manufacturing and Systems Engineers (3)	CS2402 Introduction to Computational Probability Modeling (3)	SYE3060 Operations Research (3)	SYE4108 Product Development and Innovation (3)			Gateway Education 4 (3)	15
	S	FS3002 Industrial Attachment Scheme (3)	Free Elective 1 (3)						6
2027 / 28 (Year 3)	A	Major Elective 2 (3)	Major Elective 3 (3)	Free Elective 2 (3)	Free Elective 3 (3)	Free Elective 4 (3)			15
	B	Go Global Programme <i>The Go-Global Programme situated in Semester B of Year 3 Study (for non-CES Go Global mode) is a one-semester overseas exchange study at one of our partner universities outside of Hong Kong. Our past students have chosen destinations including universities in Sweden, Finland, The Netherlands, Germany, UK, USA, Taiwan, etc.</i>							0
	S	Free Elective 5 (3)	Free Elective 6 (3)						6
2028 / 29 (Year 4)	A	Major Elective 4 (3)	Major Elective 5 (3)	Free Elective 7 (3)	Free Elective 8 (3)	Free Elective 9 (3)			15
	B	Major Elective 6 (3)	Major Elective 7 (3)	Free Elective 10 (3)	Free Elective 11 (3)	Free Elective 12 (3)			15
	S								0
() indicates number of credit units								Total credits required = 121	

Note: Students can take Major electives from Year 3 depending on their overall study plan, and some elective courses may be available for study in the evenings only.

