

Programme Requirements for Bachelor of Applied Science with Honours in Integrated Testing, Inspection and Certification

This 3-credit-unit system programme requirements document is applicable to the
following student cohorts:

<i>Year of Entry</i>	<i>Admission cohort</i>
<i>Year 1</i>	<i>2023/24 and thereafter</i>
<i>Year 2</i>	<i>2024/25 and thereafter</i>
<i>Year 3</i>	<i>2025/26 and thereafter</i>

1. Programme Requirement - Year 1 Entry

1.1 To be eligible for the award of the degree of Bachelor of Applied Science with Honours in Integrated Testing, Inspection and Certification through Year 1 Entry, a student shall:

1.1.1 obtain 120 credit-units as prescribed below, of which no more than 30 credit-units shall be at 1000-level, at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

1.1.1.1 72 credit-units of core courses in Table 1;

1.1.1.2 6 credit-units of 3000-level elective courses in testing & certification from Table 2;

1.1.1.3 6 credit-units of 3000-level elective courses in inspection from Table 3;

1.1.1.4 3 credit-units of 4000-level elective courses in testing & certification from Table 4;

1.1.1.5 3 credit-units of 4000-level elective courses in inspection from Table 5;

1.1.1.6 9 credit-units of 3000-level or 4000-level elective courses from Table 2, 3, 4 or 5;

1.1.1.7 9 credit-units of University Core courses in Table 6;

1.1.1.8 6 credit-units of University English courses in Table 7;

1.1.1.9 6 credit-units of General Education (GE) courses (see www.hkmu.edu.hk/FT_GE for the updated list of GE courses)

and

1.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

2. Programme Requirement – Year 2 Entry

2.1 To be eligible for the award of the degree of Bachelor of Science with Honours Integrated Testing, Inspection and Certification through Year 2 Entry, a student shall:

2.1.1 obtain 90 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

2.1.1.1 54 credit-units of core courses in Table 1;

2.1.1.2 6 credit-units of 3000-level elective courses in testing & certification from Table 2;

2.1.1.3 6 credit-units of 3000-level elective courses in inspection from Table 3;

2.1.1.4 3 credit-units of 4000-level elective courses in testing & certification from Table 4;

2.1.1.5 3 credit-units of 4000-level elective courses in inspection from Table 5;

2.1.1.6 9 credit-units of 3000-level or 4000-level elective courses from Table 2, 3, 4 or 5;

2.1.1.7 9 credits-units of University Core courses in Table 6;

and

2.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

3. Programme Requirement – Year 3 Entry

3.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Integrated Testing, Inseption and Certification through Year 3 Entry, a student shall:

3.1.1 obtain 66 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

3.1.1.1 30 credit-units of core courses in Table 1;

3.1.1.2 6 credit-units of 3000-level elective courses in testing & certification from Table 2;

3.1.1.3 6 credit-units of 3000-level elective courses in inspection from Table 3;

3.1.1.4 3 credit-units of 4000-level elective courses in testing & certification from Table 4;

3.1.1.5 3 credit-units of 4000-level elective courses in inspection from Table 5;

3.1.1.6 9 credit-units of 3000-level or 4000-level elective courses from Table 2, 3, 4 or 5;

3.1.1.7 9 credits-units of University Core courses in Table 6;

and

3.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

Table 1: Core Courses

Course Code	Course Title	Credit-units	Year Entry		
			1	2	3
BIOL 2035SEF	Biochemistry and Microbiology	3	✓	✓	
CHEM 2034SEF	Physical and Organic Chemistry	3	✓	✓	
ENGG 2060SEF	Introduction to Material Science	3	✓	✓	
SCI 1001SEF	University Science	3	✓		
SCI 1010SEF	Laboratory Safety & Good Laboratory Practice	3	✓		
STAT 2610SEF	Data Analytics with Applications	3	✓		
TC 1000SEF	Introduction of Testing and Certification	3	✓		
TC 1020SEF	Computer Applications for Test Engineers	3	✓		
TC 2000SEF	Basic Electrical Product Safety and Energy Efficiency	3	✓	✓	
TC 2020SEF	Metrology & Calibration	3	✓	✓	
TC 2040SEF	Industrial Placement I	6	✓	✓	
TC 2080SEF	Principles of Product Design & Manufacturing Process Management	3	✓	✓	
TC 2090SEF	Industrial Training	3	✓		
TC 3015SEF	Management Systems for Testing, Inspection & Certification Bodies	6	✓	✓	✓
TC 3040SEF	Industrial Placement II	6	✓	✓	✓
TC 4019SEF	Quality Management for Science & Technology	3	✓	✓	✓
TC 4020SEF	Professional Practice & Ethics	3	✓	✓	✓
TC 4094SEF	Workplace Project	12	✓	✓	✓

Table 2: 3000-level elective courses in testing & certification

Course Code	Course Title	Credit-units
BIOL 3051SEF	Microbiology & Toxicology	3
BIOL 3056SEF	Biochemical and DNA Technologies	3
CHEM 3050SEF	Analytical Chemistry	3
TC 3030SEF	Physical & Mechanical Behaviour of Materials	3
TC 3042SEF	Electromagnetic Compatibility Measurement & Control	3

Table 3: 3000-level elective courses in inspection

Course Code	Course Title	Credit-units
ENVR 3028SEF	Advances in Environmental Impact Assessment	3

Course Code	Course Title	Credit-units
ENVR 3074SEF	Green Environmental Monitoring in Practice	3
TC 3020SEF	Test method Development & Validation	3
TC 3080SEF	Principles of Good Manufacturing Practice	3

Table 4: 4000-level elective courses in testing & certification

Course Code	Course Title	Credit-units
ENGG 4003SEF	Construction Information Technology	3
TC 4009SEF	Safety & Reliability for Science & Technology	3
TC 4015SEF	General Testing & Certification in Practice	3

Table 5: 4000-level elective courses in inspection

Course Code	Course Title	Credit-units
COMP 4330SEF	Advanced Programming and AI Algorithms	3
ELEC 4480SEF	IoT Security	3
TC 4011SEF	Conformity Assessment & Medical Laboratory Accreditation	3
TC 4026SEF	Audit, Inspection & Certification	3

Table 6: University Core Courses

Course Code	Course Title	Credit-units
UNI 1002ABW	University Core Values	2
UNI 1012ABW	Social Responsibilities	1
UNI 2002BEW	Effective Communication and Teamwork	3
UNI 3002BEW	Entrepreneurial Mindset and Leadership for Sustainability	3

Table 7: University English Courses

Course Code	Course Title	Credit-units
ENGL 1101AEF	University English: Reading and Writing	3
ENGL 1202EEF	University English: Listening and Speaking	3