HONG KONG METROPOLITAN UNIVERSITY

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

To be eligible for the award of the **Bachelor of Applied Science with Honours in Integrated Testing, Inspection and Certification**, a student shall obtain the required number of credits specified below for the Year of entry, in courses prescribed and detailed on the programme tables.

For students admitted via Year 1 entry in or after 2021/22, via Year 2 entry in or after 2022/23 and via Year 3 entry in or after 2023/24, they must complete the four University Core Values Modules, namely Core Value I (Integrity), Core Value II (Fairness), Core Value III (Perseverance), and Core Value IV (Innovation) for graduation.

Year 1 Entry

A student admitted to the programme through Year 1 Entry is required to complete a total of 160 credits as prescribed below, of which no more than 40 credits should be taken at Foundation Level:

1. 10 credits of core general mathematics and information technology courses in Table 1;
2. 85 credits of core courses in Tables 2, 3, 4 and 5;
3. 30 credits of electives from Table 6 and 7, in which at least 10 credits each from the area of Inspection, and the area of Testing and Certification;
4. 20 credits of practicum courses in Tables 8 and 9;
5. 5 credits of English Language Enhancement courses *; and

    * Note: Please refer to the updated list of English Language Enhancement courses posted on the University website (www.hkmu.edu.hk/FT_ENGLISH).

6. 10 credits of purpose-designed General Education courses [#].
    [#] Note: Please refer to the updated list of purpose-designed General Education courses posted on the University website (www.hkmu.edu.hk/FT_GE).

Year 2 Entry

A student admitted to the programme through Year 2 Entry needs to complete a total of 120 credits as prescribed below, of which no more than 20 credits should be taken at Foundation Level:

1. 70 credits of core courses in Tables 3, 4 and 5;
2. 30 credits of electives from Tables 6 and 7, in which at least 10 credits each from the area of Inspection, and the area of Testing and Certification; and
3. 20 credits of practicum courses in Tables 8 and 9.

Year 3 Entry

A student admitted to the programme through Year 3 Entry needs to complete a total of 80 credits as prescribed below:

1. 40 credits of core courses in Tables 4 and 5;
2. 30 credits of electives from Tables 6 and 7, in which at least 10 credits each from the area of Inspection, and the area of Testing and Certification; and
3. 10 credits of practicum course in Table 9.

Table 1:　Core General Mathematics and Information Technology Courses (Foundation Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
STAT S151F	Probability and Distribution	5	Foundation	-
TC S120F	Computer Applications for Test Engineers	5	Foundation	-

Table 2:　Core Courses (Foundation Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
SCI S101F	University Science	5	Foundation	-
SCI S110F	Laboratory Safety and Good Laboratory Practice	5	Foundation	-
TC S100F	Introduction of Testing and Certification	5	Foundation	-

Table 3:　Core Courses (Middle Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
BIOL S235F	Biochemistry and Microbiology	5	Middle	b
CHEM S234F	Physical and Organic Chemistry	5	Middle	b
ENGG S260F	Introduction to Material Science	5	Middle	b
TC S200F	Basic Electrical Product Safety and Energy Efficiency	5	Middle	b
TC S220F	Metrology and Calibration	5	Middle	b

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S280F	Principles of Product Design and Manufacturing Process Management	5	Middle	b

Table 4:   Core Courses (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S315F	Management Systems for Testing, Inspection and Certification Bodies	10	Higher	a or b
TC S319F	Quality Management for Science and Technology	5	Higher	a or b

Table 5:   Core Courses (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S420F	Professional Practice and Ethics	5	Higher	a or b
TC S494F	Workplace Project	20	Higher	a

Table 6:   Electives in Inspection area (Higher Level)

Course Code	Course Title	Credits	Course Level	Area	Course Group for Honours Classification
ENGG S403F	Construction Information Technology	5	Higher	Inspection	a or b
ENVR S374F	Green Environmental Monitoring in Practice	5	Higher	Inspection	a or b
TC S320F	Test Method Development and Validation	5	Higher	Inspection	a or b
TC S380F	Principles of Good Manufacturing Practice	5	Higher	Inspection	a or b
TC S409F	Safety and Reliability for Science and Technology	5	Higher	Inspection	a or b
TC S426F	Audit, Inspection and Certification	5	Higher	Inspection	a or b

Table 7: Electives in Testing and Certification area (Higher Level)

Course Code	Course Title	Credits	Course Level	Area	Course Group for Honours Classification
BIOL S351F	Microbiology & Toxicology	5	Higher	Testing & Certification	a or b
BIOL S356F	Biochemical and DNA Technologies	5	Higher	Testing & Certification	a or b
CHEM S350F	Analytical Chemistry	5	Higher	Testing & Certification	a or b
TC S330F	Physical and Mechanical Behaviour of Materials	5	Higher	Testing & Certification	a or b
TC S342F	Electromagnetic Compatibility Measurement and Control	5	Higher	Testing & Certification	a or b
TC S415F	General Testing and Certification in Practice	5	Higher	Testing & Certification	a or b

Table 8: Practicum Course (Middle Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S240F	Industrial Placement I	10	Middle	b

Table 9: Practicum Course (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S340F	Industrial Placement II	10	Higher	a or b

Note:

1. *If students wish to retake counterpart course(s) in e-learning mode, they should seek Programme Leader's approval, with due consideration of factors such as clash of timetabling and availability of distance learning counterparts, etc.*

Honours Classification

For the purpose of honours classification of the **Bachelor of Applied Science with Honours in Integrated Testing, Inspection and Certification** programme, relevant courses are categorized as Group (a) and Group (b) as shown in Tables 3 to 9 above.

Group (a) courses consist of TC S494F (20 credits) and the best 20 from the remaining Higher level courses listed in Tables 4, 5, 6, 7 and 9.

Group (b) courses consist of the best 40 credits from the courses listed in Tables 3, 4, 5, 6, 7, 8 and 9, where such credits are not taken into account in Group (a) courses.

Group (a) is weighted the same as Group (b).

March 2023 (Student Edition)