

HONG KONG METROPOLITAN UNIVERSITY
(Formerly The Open University of Hong Kong)

Programme Requirements for Bachelor of Science with Honours in Testing Science and Certification (BSCHTSCJ)

To be eligible for the award of the **Bachelor of Science with Honours in Testing Science and Certification (BSCHTSCJ)**, 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. 105 credits of core courses in Tables 1, 2, and 3;
2. 25 credits of elective courses from Table 4;
3. 10 credits of English Language Enhancement courses* ; and

**Note: Please consult the Programme Leader for the selection of English Language Enhancement courses posted on the University website (www.hkmu.edu.hk/FT_ENGLISH).*

4. 20 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 is required to complete a total of 120 credits as prescribed below, of which no more than 20 credits should be taken at Foundation Level:

1. 80 credits of core courses in Tables 2, and 3;
2. 25 credits of elective courses from Table 4;
3. 5 credits of English Language Enhancement courses* ; and

**Note: Please consult the Programme Leader for the selection of English Language Enhancement courses posted on the University website (www.hkmu.edu.hk/FT_ENGLISH).*

4. 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 3 Entry

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

1. 50 credits of core courses in Table 3; and
2. 30 credits of elective courses from Table 4.

Table 1: Core Courses (Foundation Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
BIOL S103F ¹	Essential Biology	5	Foundation	-
CHEM S102F ¹	Essential Chemistry	5	Foundation	-
SCI S110F ¹	Laboratory Safety and Good Laboratory Practice	5	Foundation	-
STAT S151F	Probability and Distribution	5	Foundation	-
TC S120F	Computer Applications for Test Engineers	5	Foundation	-

Table 2: Core Courses (Middle Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
BIOL S235F ¹	Biochemistry and Microbiology	5	Middle	b
BIOL S236F ¹	Cellular and Molecular Biology	5	Middle	b
CHEM S234F ¹	Physical and Organic Chemistry	5	Middle	b
SCI S291F ¹	Guided Laboratory Practice	5	Middle	-
TC S220F	Metrology and Calibration	5	Middle	b
TC S280F	Principles of Product Design and Manufacturing Process Management	5	Middle	b

Table 3: Core Courses (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
BIOL S351F ¹	Microbiology and Toxicology	5	Higher	b
BIOL S356F ¹	Biochemical and DNA Technology	5	Higher	b
CHEM S350F ¹	Analytical Chemistry	5	Higher	b
TC S311F	Conformity Assessment and Laboratory Accreditation	5	Higher	a

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
TC S312F	Management Systems for Inspection and Certification Bodies	5	Higher	a
TC S319F	Quality Management for Science and Technology	5	Higher	b
TC S320F	Measurement Uncertainty, Method Validation and Automation	5	Higher	b
TC S420F	Professional Practice and Ethics	5	Higher	a
TC S493F	Testing Science and Certification Project	10	Higher	a

Table 4: Elective Courses (Higher Level)

Course Code	Course Title	Credits	Course Level	Course Group for Honours Classification
ENVR S374F ¹	Green Environmental Monitoring in Practice	5	Higher	a
SCI S364F ¹	Emerging Technologies in Food Analysis	5	Higher	a
SCI S365F ¹	Food Analysis	5	Higher	b
SCI S463F ¹	Selected Topics in Food Safety	5	Higher	a
TC S355F	Selected Chemical and Microbiological T & C Standards	5	Higher	b
TC S372F	Product Environmental, Health and Safety Standards	5	Higher	b
TC S375F	Greenhouse Gas Validation and Certification	5	Higher	b
TC S380F	Principles of Good Manufacturing Practice	5	Higher	b
TC S409F	Safety & Reliability for Science and Technology	5	Higher	a
TC S426F	Audit, Inspection and Certification	5	Higher	a
TC S462F	Food Safety Management System: Audit and Certification	5	Higher	a
TC S472F	Management System Certification: ISO 14001 and ISO 50001	5	Higher	a
TC S473F	Energy Efficiency and Green Product Testing	5	Higher	a

Note:

1. List of changes in course codes:

Original Course Code	Revised Course Code	Effective Term
SCI S102F	CHEM S102F	2019 Autumn
SCI S235F	BIOL S235F	2019 Autumn
TC S103F	BIOL S103F	2019 Autumn
TC S110F	SCI S110F	2019 Autumn

<i>Original Course Code</i>	<i>Revised Course Code</i>	<i>Effective Term</i>
<i>TC S234F</i>	<i>CHEM S234F</i>	<i>2019 Autumn</i>
<i>TC S236F</i>	<i>BIOL S236F</i>	<i>2019 Autumn</i>
<i>TC S291F</i>	<i>SCI S291F</i>	<i>2019 Autumn</i>
<i>TC S350F</i>	<i>CHEM S350F</i>	<i>2019 Autumn</i>
<i>TC S351F</i>	<i>BIOL S351F</i>	<i>2019 Autumn</i>
<i>TC S356F</i>	<i>BIOL S356F</i>	<i>2019 Autumn</i>
<i>TC S365F</i>	<i>SCI S365F</i>	<i>2019 Autumn</i>
<i>TC S463F</i>	<i>SCI S463F</i>	<i>2019 Autumn</i>
<i>TC S464F</i>	<i>SCI S364F</i>	<i>2019 Autumn</i>
<i>TC S474F</i>	<i>ENVR S374F</i>	<i>2019 Autumn</i>

2. *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 Science with Honours in Testing Science and Certification** programme, the weighted grade point average (WGPA) will be calculated as follows:

- (1) Group (a) courses consist of TC S493F (10 credits) and the best 30 credits from the remaining Higher level courses listed from Tables 3 and 4.
- (2) Group (b) courses consist of the best 40 credits in courses at the Higher or Middle level listed from Tables 2, 3 and 4, where such credits are not taken into account in Group (a) courses.
- (3) Group (a) is weighted at twice the value of Group (b).

Last update: August 2022