

Regulations for the degree of Bachelor of Science in Product Design, Testing and Certification and Bachelor of Science with Honours in Product Design, Testing and Certification

The programmes of Bachelor of Science in Product Design, Testing and Certification and Bachelor of Science with Honours in Product Design, Testing and Certification have been phased out from 2020 Spring Term. The University will continue to confer the award of the degree of Bachelor of Science in Product Design, Testing and Certification and Bachelor of Science with Honours in Product Design, Testing and Certification up to December 2024.

1. General

- 1.1 These regulations are made under paragraphs 1 and 4 of the Regulations for the Award of Undergraduate Degrees.
- 1.2 In these regulations definitions shall apply as in the Regulations for the Award of Undergraduate Degrees and in the Interpretation Section of the Academic Rules and Regulations.

2. Entry Requirements

- 2.1 To enter the **Bachelor of Science in Product Design, Testing and Certification** programme through pathway 1 or the **Bachelor of Science with Honours in Product Design, Testing and Certification** through Pathway 1, a student shall normally possess a recognized Higher Diploma or Associate Degree (or equivalent) in a discipline directly related to product design, testing and certification from a local tertiary institution recognized by the University.

3. Bachelor of Science in Product Design, Testing and Certification (BSCPDTCC)

- 3.1 To be eligible for the award of the degree of **Bachelor of Science in Product Design, Testing and Certification**, a student shall:
 - 3.1.1 comply with the Regulations for Admission, Registration and Maintenance of Status; and
 - 3.1.2 comply with the Regulations for the Award of Undergraduate Degrees; and
 - 3.1.3 obtain at least 120 credits of which no more than 40 credits shall be obtained at Foundation level; and
 - 3.1.4 obtain at least 100 credits in courses prescribed by the regulations as appropriate to the degree for which notice has been given, including at least 20 credits in courses at Higher level.
- 3.2 For the degree of **Bachelor of Science in Product Design, Testing and Certification**, the University has prescribed that a student must:
 - 3.2.1 successfully complete 20 credits from foundation-level core courses labelled CF in Table 1 (i.e. MATH S122 and SCI S121 or SCI S123 and SCI S124); and
 - 3.2.2 successfully complete 20 credits from middle-level core courses on product design labelled CM in Table 1 (i.e. MECH S213 and MECH S264/DESN S217); and
 - 3.2.3 successfully complete 10 credits from courses labelled OH or OM in Table 1 (i.e. CHEM S310/CHEM S311 and CHEM S312 or PHYS S271); and

- 3.2.4 successfully complete 40 credits from higher-level core specialized courses on product design, testing and certification labelled SH in Table 1 (i.e. DESN S364, TC S361, TC S362, TC S371, TC S372, SCI S319/TC S319, SCI S409/TC S409); and
- 3.2.5 successfully complete 10 credits from middle-level elective courses labelled EM in Table 1 (i.e. CHEM S251, ENGG S228, ENVR S237, MGT B240, MATH S242/STAT S242); and
- 3.2.6 successfully complete 20 credits from any Foundation, Middle or Higher level courses offered by the University, provided that, of the total 120 credits, no more than 40 are gained at Foundation level.

4. Bachelor of Science in Product Design, Testing and Certification (through Pathway 1) (BSCPDTC1)

- 4.1 To be eligible for the award of the degree of **Bachelor of Science in Product Design, Testing and Certification**, a student who entered the programme through pathway 1 shall:
 - 4.1.1 comply with the Regulations for Admission, Registration and Maintenance of Status; and
 - 4.1.2 comply with the Regulations for the Award of Undergraduate Degrees; and
 - 4.1.3 obtain at least 40 credits in courses prescribed by the regulations as appropriate to the degree for which notice has been given.
- 4.2 For the degree of **Bachelor of Science in Product Design, Testing and Certification**, the University has prescribed that a student who entered the programme through pathway 1 must:
 - 4.2.1 successfully complete 40 credits from higher-level core specialized courses on product design, testing and certification labelled SH in Table 1.

5. Bachelor of Science with Honours in Product Design, Testing and Certification (BSCHPDTC)

- 5.1 To be eligible for the award of the degree of **Bachelor of Science with Honours in Product Design, Testing and Certification**, a student shall:
 - 5.1.1 comply with the Regulations for Admission, Registration and Maintenance of Status; and
 - 5.1.2 comply with the Regulations for the Award of Undergraduate Degrees; and
 - 5.1.3 obtain at least 160 credits of which no more than 40 credits shall be obtained at Foundation level; and
 - 5.1.4 obtain at least 40 credits in courses at Higher level; and
 - 5.1.5 successfully complete the prescribed programme of studies.
- 5.2 For the degree of **Bachelor of Science with Honours in Product Design, Testing and Certification**, the University has prescribed that a student must:
 - 5.2.1 successfully complete 20 credits from foundation-level core courses labelled CF in Table 1 (i.e. MATH S122 and SCI S121 or SCI S123 and SCI S124); and
 - 5.2.2 successfully complete 20 credits from middle-level core courses on product design labelled CM in Table 1 (i.e. MECH S213 and MECH S264/DESN S217); and

- 5.2.3 successfully complete 10 credits from courses labelled OH or OM in Table 1 (i.e. CHEM S310/CHEM S311 and CHEM S312 or PHYS S271); and
- 5.2.4 successfully complete 40 credits from higher-level core specialized courses on product design, testing and certification labelled SH in Table 1 (i.e. DESN S364, TC S361, TC S362, TC S371, TC S372, SCI S319/TC S319, SCI S409/TC S409); and
- 5.2.5 successfully complete 20 credits from middle-level elective courses labelled EM in Table 1 (i.e. CHEM S251, ENGG S228, ENVR S237, MGT B240, MATH S242/STAT S242); and
- 5.2.6 successfully complete 10 credits from high-level elective courses labelled EH in Table 1 (i.e. ELEC S354, ENGG S356, SCI S330, SCI S404); and
- 5.2.7 successfully complete 20 credits from higher-level core project course labelled PJ in Table 1 (TC S450).
- 5.2.8 successfully complete additional courses, as necessary, from any Foundation, Middle or Higher level courses offered by the University, provided that, of the total 160 credits, no more than 40 are gained at Foundation level.

6. Bachelor of Science with Honours in Product Design, Testing and Certification (through Pathway 1) (BSCHPDTTC1)

- 6.1 To be eligible for the award of the degree of **Bachelor of Science with Honours in Product Design, Testing and Certification**, a student who entered the programme through pathway 1 shall:
 - 6.1.1 comply with the Regulations for Admission, Registration and Maintenance of Status; and
 - 6.1.2 comply with the Regulations for the Award of Undergraduate Degrees; and
 - 6.1.3 obtain at least 80 credits of which at least 40 credits shall be obtained in courses at Higher level; and
 - 6.1.4 successfully complete the prescribed programme of studies.
- 6.2 For the degree of **Bachelor of Science with Honours in Product Design, Testing and Certification**, the University has prescribed that a student who entered the programme through pathway 1 must:
 - 6.2.1 successfully complete 40 credits from higher-level core specialized courses on product design, testing and certification labelled SH in Table 1; and
 - 6.2.2 successfully complete 10 credits from middle-level elective courses labelled EM in Table 1; and
 - 6.2.3 successfully complete 10 credits from higher-level elective courses labelled EH in Table 1; and
 - 6.2.4 successfully complete 20 credits from higher-level core project course labelled PJ in Table 1.
- 7. Each degree with Honours shall be conferred with a classification of First Class, Second Class (Upper Division), Second Class (Lower Division) or Third Class save that exceptionally a degree may be conferred without classification.
- 8. Subject to the requirements of the relevant programme of study, each person on whom an

Honours degree is to be conferred shall be assigned to a classification determined by the University according to its regulations.

9. For the calculation of scores for classification purposes in the degree of **Bachelor of Science with Honours in Product Design, Testing and Certification**, the University has deemed that "Group (a)" shall consist of course TC S450 Product Design, Testing and Certification Project plus the best 20 credits in courses at Higher level listed in Table 1, and that "Group (b)" shall consist of the best 40 credits in courses at Higher or Middle level listed in Table 1, where such credits are not taken into account in "Group (a)". Further, that "X" shall equal two, that is "Group (a)" shall be weighted at twice the value of "Group (b)". (Refer to the paragraphs on Classification of the Degree with Honours of the Regulations for the Award of Undergraduate Degrees.)

Table 1: Courses currently on offer (Phased out courses that can be counted towards the degree are listed in note 2)

Course Code	Course Title	Credits	BSCPDTTC	BSCH PDTC	Honours Classification Group
<i>Foundation level</i>					
MATH S122	A Foundation in Applied Mathematics	10	CF	CF	--
SCI S123 ^{1,2}	Foundation Physics	5	CF	CF	--
SCI S124 ^{1,2}	Foundation Chemistry	5	CF	CF	--
<i>Middle level</i>					
DESN S217 ^{1,2}	Design Essentials	10	CM	CM	b
MECH S213	Materials: Engineering and Science	10	CM	CM	b
CHEM S251	Organic and Physical Chemistry	10	EM	EM	b
ENGG S228	Engineers in Society	5	EM	EM	b
ENVR S237	Environmental Control and Public Health	10	EM	EM	b
MGT B240	Principles and Practices of Management	5	EM	EM	b
STAT S242 ^{1,2}	Statistics in Society	10	EM	EM	b
PHYS S271	Discovering Physics	10	OM	OM	b
<i>Higher level</i>					
HEM S311 ^{1,2}	Analytical Chemistry	5	OH	OH	a or b
CHEM S312 ^{1,2}	Instrumental Analysis	5	OH	OH	a or b
TC S361	Instrumentation and Testing Techniques	5	SH	SH	a or b
TC S362	Manufacturing and Inspection Technologies	5	SH	SH	a or b

Course Code	Course Title	Credits	BSCPDTTC	BSCH PDTC	Honours Classification Group
TC S371	Product Certification and Laboratory Accreditation Practices	5	SH	SH	a or b
TC S319 ^{1,2}	Quality Management for Science and Technology	5	SH	SH	a or b
TC S409 ^{1,2}	Safety and Reliability for Science and Technology	5	SH	SH	a or b
ENGG S356	Engineering Small Worlds: Micro and Nano Technologies	10	--	EH	a or b
SCI S330	Scientific Research Methods	5	--	EH	a or b
SCI S404	Advanced Topics in Food and Health Sciences	5	--	EH	a or b
TC S450	Product Design, Testing and Certification Project	20	--	PJ	a

Notes:

1. This course forms an excluded combination with other course(s). Only one of the courses in the [excluded combination](#) can be counted towards an HKMU award. Students should refer to the list of [excluded combinations](#) for details.
2. The following phased out courses are no longer available. Students who have successfully completed any of these courses can have the credits awarded for the phased out course(s) counted towards the BSCPDTTC/BSCHPDTC programmes, and are deemed to have completed corresponding replacement course(s), if any, subject to the requirements of relevant regulations.

Table 2: Phased out courses

Phased out Courses			Replacement courses			Label		Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits	BSC PDTC	BSCH PDTC		
CHEM S310	Analytical Chemistry	10	CHEM S311	Analytical Chemistry	5	OH	OH	a or b	--
			CHEM S312	Instrumental Analysis	5	OH	OH	a or b	--
DESN S364	Fundamentals of Interaction Design	10	No replacement			SH	SH	a or b	--
ELEC S354	Inside Electronic Devices	10	No replacement			--	EH	a or b	--
MATH S242	Statistics in Society	10	STAT S242	Statistics in Society	10	EM	EM	b	--
MECH S264	Design: Principles and Practice	10	DESN S217	Design Essentials	10	CM	CM	b	--

Phased out Courses			Replacement courses			Label		Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits	BSC PDTC	BSCH PDTC		
SCI S121	A Foundation Course in Physics and Chemistry	10	SCI S123	Foundation Physics	5	CF	CF	N/A	--
			SCI S124	Foundation Chemistry	5	CF	CF	N/A	--
SCI S319	Quality Management for Science and Technology	5	TC S319	Quality Management for Science and Technology	5	SH	SH	a or b	1
SCI S409	Safety and Reliability for Science and Technology	5	TC S409	Safety and Reliability for Science and Technology	5	SH	SH	a or b	1
TC S372	Product Environmental, Health and Safety Standards	5	No replacement			SH	SH	a or b	--

Note to Table 2:

1. Change of course code

March 2022