HONG KONG METROPOLITAN UNIVERSITY

Regulations for the degree of Bachelor of Science with Honours in Electronics (with Management)

The programme of Bachelor of Science with Honours in Electronics (with Management) has been phased out from 2021 Spring term. The University will continue to confer the award of the degree of Bachelor of Science with Honours in Electronics (with Management) up to December 2025.

These regulations are made under paragraphs 1 to 4 of the Regulations for the Award of Undergraduate Degrees.

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.

Bachelor of Science with Honours in Electronics (with Management)(BSCHEM)

1. To be eligible for the award of the degree of **Bachelor of Science with Honours in Electronics (with Management)**, a student shall:

   a)   comply with the Regulations for Admission, Registration and Maintenance of Status; and

   b)   comply with the Regulations for the Award of Undergraduate Degrees; and

   c)   obtain at least 160 credits of which no more than 40 credits shall be obtained at Foundation level; and

   d)   obtain at least 40 credits in courses at Higher level; and

   e)   successfully complete the prescribed programme of studies.

2. For the degree of **Bachelor of Science with Honours in Electronics (with Management)**, the University has prescribed that a student must:

   a)   successfully complete 20 credits from courses labelled FH in Table 1; and

   b)   successfully complete 90 credits from compulsory courses labelled CH in Table 1; and

   c)   successfully complete 20 credits from courses labelled EH in Table 1; and

   d)   successfully complete 10 credits from courses labelled DH or TH in Table 1; and

   e)   successfully complete 5 credits from courses labelled BCH in Table 1; and

   f)   successfully complete 15 credits from courses labelled BH in Table 1.

3. 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.

4. Subject to the requirement 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.

5. For the calculation of scores for classification purposes in the degree of **Bachelor of Science with Honours in Electronics (with Management)**, the University has deemed that "Group (a)" shall consist of course ELEC S402 The Project Course 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 5)

Course Code	Course Title	Credits	BSCHEM	Honours Classification Group
Foundation level				
BIS B123 [1,5]	Business Computing Applications	5	BH	--
BUS B103 [1,3,5]	English and Communications for Business I	5	FH	--
MATH S121 [1,2,5]	A Foundation in Pure Mathematics	10	FH	--
MATH S122 [1,2,5]	A Foundation in Applied Mathematics	10	FH	--
SCI S123 [1,5]	Foundation Physics	5	FH	--
SCI S124 [1,5]	Foundation Chemistry	5	FH	--
Middle level				
ACT B210 [1,5]	Introduction to Accounting	10	BH	b
ECON A231 [1,5]	Introduction to Microeconomics	5	BH	b
ECON A232 [1,5]	Introduction to Macroeconomics	5	BH	b
LAW B262 [1,5]	Business Law I	5	BH	b
LAW B263 [1,5]	Business Law II	5	BH	b
MKT B250	Introduction to Marketing	5	BH	b
MGT B240	Principles and Practices of Management	5	BCH	b
ELEC S222 [1,5]	Electronics Principles and Digital Design	10	CH	b
ELEC S225 [1,5]	Analogue Circuits	10	CH	b
MATH S221 [1,5]	Mathematical Methods	10	CH	b
MATH S222 [1,5]	Mathematical Models with Applications	10	CH	b
PHYS S271	Discovering Physics	10	CH	b
DESN S217 [1,5]	Design Essentials	10	DH	b
ENGG S228 [3]	Engineers in Society	5	FH/BH	b
COMP S201 [1]	Computing Fundamentals with Java	10	TH	b

Course Code	Course Title	Credits	BSCHEM	Honours Classification Group
COMP S258	Computer Programming and Problem Solving	10	TH	b
ELEC S212	Network Programming and Design	10	TH	b
ELEC S224 [1,5]	Computers and Processors	10	TH	b
Higher level				
TC S319 [1,5]	Quality Management for Science and Technology	5	BH	a or b
TC S409 [1,5]	Safety and Reliability for Science and Technology	5	BH	a or b
ELEC S402 [4]	Electronics Project Course	20	CH	a[4]
MGT B347 [1,5]	Managing People and Organizations	10	CH	a or b
MGT B440 [1,5]	Strategic Management of Human Resources	10	CH	a or b
MATH S365 [1]	Graphs, Networks and Design	10	DH	a or b
ELEC S323 [1]	Information Theory and Digital Communications	10	EH	a or b
ELEC S334	Signal Processing and Multimedia Technology	10	EH	a or b
ENGG S356	Engineering Small Worlds: Micro and Nano Technologies	10	EH	a or b
MECH S395	Mechatronics	10	EH	a or b
COMP S311 [1]	Advanced Java Programming and Mobile Application Development	10	TH	a or b

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. Students who are weak in mathematics are strongly advised to take either MATH S121 or MATH S122 in courses labelled FH.

3. Students intending to apply for membership of professional engineering societies are advised to take BUS B103 and ENGG S228.

4. Course ELEC S402 will be compulsorily included in "Group (a)" for Honours Classification purposes.

5. 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 BSCHEM programme, 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 in BSCHEM	Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits			
ACT B211	Introduction to Accounting I	5	ACT B210	Introduction to Accounting	10	BH	b	--
ACT B212	Introduction to Accounting II	5						
BUS B100	Business Communication	5	BUS B103	English and Communications for Business I	5	FH	N/A	--
BIS B121	Business Computing with Internet Applications	5	BIS B123	Business Computing Applications	5	BH	N/A	--
BIS B220	Business Computing	5	No replacement			BH	b	--
COMP S205	Fundamentals of Computing	20	No replacement			TH	b	2
COMP S210	Computing Fundamentals	10	No replacement			TH	b	--
DESN S364	Fundamentals of Interaction Design	10	No replacement			DH	a or b	--
ELEC S202	Analogue and Digital Electronics	20	ELEC S222	Electronics Principles and Digital Design	10	CH	b	--
			ELEC S225	Analogue Circuits	10	CH	b	--
ELEC S203	The Digital Computer	10	ELEC S224	Computers and Processors	10	TH	b	--
ELEC S223	Microprocessor-based Computers	10	ELEC S224	Computers and Processors	10	TH	b	--
ELEC S396	Artificial Intelligence for Technology	10	No replacement			TH	a or b	--
ELEC S322	Digital Telecommunications	10	No replacement			EH	a or b	--
ELEC S354	Inside Electronic Devices	10	No replacement			EH	a or b	--

Phased out Courses			Replacement courses			Label in BSCHEM	Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits			
ELEC S393	Electronic Materials and Devices	10	No replacement			EH	a or b	--
ENGG S238	Quality and Reliability	10	SCI S319/ TC S319	Quality Management for Science and Technology	5	BH	b	--
			SCI S409/ TC S409	Safety and Reliability for Science and Technology	5	BH	b	--
ECON A230	Introduction to Economics	10	ECON A231	Introduction to Microeconomics	5	BH	b	--
			ECON A232	Introduction to Macroeconomics	5	BH	b	--
LAW B260	Business Law	10	LAW B262	Business Law I	5	BH	b	--
			LAW B263	Business Law II	5	BH	b	--
MATH S101	Mathematics: A Foundation Course	20	No replacement			FH	N/A	--
MATH S111	A Foundation in Pure Mathematics	10	MATH S121	A Foundation in Pure Mathematics	10	FH	N/A	1
MATH S112	A Foundation in Applied Mathematics	10	MATH S122	A Foundation in Applied Mathematics	10	FH	N/A	1
MATH S204	Mathematical Models and Methods	20	MATH S221	Mathematical Methods	10	CH	b	--
			MATH S222	Mathematical Models with Applications	10	CH	b	--
MATH S207	Mathematical Methods, Models and Modelling	20	MATH S221	Mathematical Methods	10	CH	b	--
			MATH S222	Mathematical Models with Applications	10	CH	b	--
MATH S261	Mathematics in Computing	10	No replacement			TH	b	--
MATH S282	Modelling with Mathematics: An Introduction	10	No replacement			FH	b	--
MATH S361	Graphs, Networks and Design	10	MATH S365	Graphs, Networks and Design	10	DH	a or b	--

Phased out Courses			Replacement courses			Label in BSCHEM	Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits			
MATH S353	Programming and Programming Languages	10	No replacement			TH	a or b	--
MECH S264	Design: Principles and Practice	10	DESN S217	Design Essentials	10	DH	b	--
MECH S363	Computer-aided Design	10	No replacement			DH	a or b	--
MECH S394	Control Engineering	10	No replacement			EH	a or b	--
MGT B290	Organizational Behaviour	5	No replacement			BCH	b	--
MGT B340	Personnel Management	10	No replacement			CH	a or b	--
MGT B343	Managing in Organizations	10	MGT B344	Theory and Design of Organizations	5	CH	a or b	--
			MGT B345	Managing in Organizations	5	CH	a or b	--
MGT B344	Theory and Design of Organizations	5	MGT B347	Managing People and Organizations	10	CH	a or b	--
MGT B345	Managing in Organizations	5						
MGT B346	Theories and Practices of Organizational Behaviour	5	No replacement			BCH	a or b	--
MGT B441	Human Resource Management: A Strategic Approach	5	MGT B440	Strategic Management of Human Resources	10	CH	a or b	--
MGT B442	Strategic Human Resource Management Issues	5						
SCI S102	A Science Foundation Course	20	No replacement			FH	N/A	--
SCI S111	A Foundation Course in Physics and Chemistry	10	SCI S121	A Foundation Course in Physics and Chemistry	10	FH	N/A	1
SCI S121	A Foundation Course in Physics and Chemistry	10	SCI S123	Foundation Physics	5	FH	N/A	--
			SCI S124	Foundation Chemistry	5	FH	N/A	--

Phased out Courses			Replacement courses			Label in BSCHEM	Honours Classification Group	Note
Course Code	Course Title	Course credits	Course Code	Course Title	Course credits			
SCI S319	Quality Management for Science and Technology	5	TC S319	Quality Management for Science and Technology	5	BH	a or b	1
SCI S409	Safety and Reliability for Science and Technology	5	TC S409	Safety and Reliability for Science and Technology	5	BH	a or b	1

Notes to Table 2:

1. Change of course code

2. If a student takes COMP S205 to satisfy condition 2(d), he/she will be accumulating 170 credits to finish the degree.

March 2022