

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

**Programme Requirements for Bachelor of Engineering with Honours in Electronic and Computer Engineering (BENGHECEJ1)**

To be eligible for the award of the **Bachelor of Engineering with Honours in Electronic and Computer Engineering**, 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 needs to complete a total of 170 credits of which no more than 40 credits should be taken at Foundation Level. A student is required to complete:

1. 100 credits of core courses in Table 1; and
2. 30 credits of elective courses from Table 2; and
3. 10 credits of English Language Enhancement courses\*; and

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

4. 20 credits of purpose-designed General Education courses<sup>#</sup>; and

*# Note: Please refer to the updated list of purpose-designed General Education courses posted on the University website ([http://www.hkmu.edu.hk/FT\\_GE](http://www.hkmu.edu.hk/FT_GE)).*

5. 5 credits of Industrial Training (ELEC S200F) and 5 credits of Industrial Placement (ELEC S390F) in Table 3 arranged by the School.

Table 1: Core Courses

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>	<b>Course Level</b>	<b>Course Group for Honours Classification</b>
COMP S208F	Introduction to Computer Programming	5	Middle	b
COMP S209F	Data Structures, Algorithms and Problem Solving	5	Middle	b

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>	<b>Course Level</b>	<b>Course Group for Honours Classification</b>
COMP S267F	Operating Systems	5	Middle	b
ELEC S100F	Introduction to Computer Engineering	5	Foundation	-
ELEC S201F	Basic Electronics	5	Middle	b
ELEC S203F	Computer Organization and Microprocessors	5	Middle	b
ELEC S205F	Signals and Systems	5	Middle	b
ELEC S210F	Integrated Project	5	Middle	b
ELEC S241F	Electronic Circuit Design	5	Middle	b
ELEC S304F	Communication Systems	5	Higher	a or b
ELEC S305F	Computer Networking	5	Higher	a or b
ENGG S328F	Engineering Professional Practice	5	Higher	a or b
ELEC S363F	Advanced Computer Design	5	Higher	a or b
ELEC S347F	Multimedia Technologies	5	Higher	a or b
ELEC S411F	Electronic and Computer Engineering Project	10	Higher	a
MATH S141F <sup>3</sup>	Algebra and Calculus	5	Foundation	-
MATH S232F	Engineering Mathematics II	5	Middle	b
MATH S233F	Engineering Mathematics III	5	Middle	b
SCI S100F	Basic Sciences for Engineers	5	Foundation	-

Table 2: Elective Courses

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>	<b>Course Level</b>	<b>Course Group for Honours Classification</b>
COMP S313F	Mobile Application Programming	5	Higher	a or b
COMP S350F <sup>2</sup>	Software Engineering	5	Higher	a or b
COMP S351F <sup>2</sup>	Software Project Management	5	Higher	a or b
ELEC S306F	Wireless Networks	5	Higher	a or b
ELEC S315F	Routing and Switching Technologies	5	Higher	a or b
ELEC S326F	Mobile Application Development	5	Higher	a or b
ELEC S337F	Digital Signal Processing	5	Higher	a or b
ELEC S338F	Digital Communication	5	Higher	a or b
ELEC S347F	Multimedia Technologies	5	Higher	a or b
ELEC S420F	Biomedical Instrumentation and Sensors	5	Higher	a or b
ELEC S421F	Biomedical Informatics	5	Higher	a or b
ELEC S425F	Computer and Network Security	5	Higher	a or b

Table 3: Practicum

<b>Course Code</b>	<b>Course Title</b>	<b>Credits</b>	<b>Course Level</b>
ELEC S200F	Industrial Training	5	Middle
ELEC S390F	Industrial Placement	5	Higher

**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.*
2. *COMP S356F has been split into COMP S350F and COMP S351F. If students have successfully completed COMP S356F, they are deemed to have satisfied the requirements of COMP S350F and COMP S351F.*
3. *MATH S131F has been replaced by MATH S141F. If students have successfully completed MATH S131F before the 2021 Autumn Term, they are deemed to have satisfied the requirements of MATH S141F.*

**Honours Classification**

For the calculation of scores for classification purposes, relevant courses are categorized as Group (a) or Group (b) as shown in Table 1 and Table 2.

Group (a) courses consist of ELEC S411F (10 credits) and the best 30 credits from the remaining Higher Level courses listed in Table 1 and Table 2.

Group (b) courses consist of the best 40 credits in courses at the Higher or Middle Level listed in Table 1 and Table 2, where such credits are not taken into account in Group (a) courses.

Group (a) is weighted at twice the value of Group (b).

Last update: June 2022