Programme Requirements for
Bachelor of Engineering with Honours in Electronic and Computer Engineering

This 3-credit-unit system programme requirements document is applicable to the following student cohorts:

Year of Entry	Admission cohort
Year 1	2023/24 and thereafter
Year 2	2024/25 and thereafter
Year 3	2025/26 and thereafter

1. Programme Requirement – Year 1 Entry

1.1 To be eligible for the award of the degree of Bachelor of Engineering with Honours in Electronic and Computer Engineering through Year 1 Entry, a student shall:

1.1.1 obtain 126 credit-units as prescribed below, of which no more than 30 credit-units shall be at 1000-level, at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

1.1.1.1 81 credit-units of core courses in Table 1;

1.1.1.2 15 credit-units of elective courses (Group 2) in Table 3;

1.1.1.3 9 credit-units of elective courses in Table 2 (Group 1) & Table 3 (Group 2);

1.1.1.4 9 credit-units of University Core courses in Table 4;

1.1.1.5 6 credit-units of University English courses from Table 5; and

1.1.1.6 6 credit-units of General Education (GE) courses (see *www.hkmu.edu.hk/FT_GE* for the updated list of GE courses) in which at most 3 credits should be at foundation level

and

1.1.2 attain the CGPA for graduation as prescribed in the Regulations for the award of undergraduate degrees.

Table 1: Core Courses

Course Code	Course Title	Credit-units
COMP 1080SEF	Introduction to Computer Programming	3
COMP 2090SEF	Data Structures, Algorithms and Problem Solving	3
COMP 2660SEF	Computer Architecture	3
COMP 2670SEF	Operating Systems	3
ELEC 1010SEF	Digital Logic Design	3

Course Code	Course Title	Credit-units
ELEC 2010SEF	Basic Electronics	3
ELEC 2050SEF	Signal and Systems	3
ELEC 2100SEF	Integrated Project	3
ELEC 2410SEF	Electronic Circuit Design	3
ELEC 2620SEF	Information System Administration	3
ELEC 3000SEF	Industrial Training	3
ELEC 3040SEF	Communication Systems	3
ELEC 3050SEF	Computer Networking	3
ELEC 3150SEF	Routing and Switching Technologies	3
ELEC 3250SEF	Computer and Network Security	3
ELEC 3470SEF	Multimedia Technologies	3
ELEC 3630SEF	Advanced Computer Design	3
ELEC 4000SEF	Industrial Placement	3
ELEC 4110SEF	Final Year Project	6
ENGG 3280SEF	Engineering Professional Practice	3
MATH 1410SEF	Algebra and Calculus	3
MATH 2150SEF	Linear Algebra	3
MATH 2850SEF	Multivariable Calculus	3
SCI 1000SEF	Basic Sciences for Engineers	3
STAT 1510SEF	Probability and Distributions	3
STAT 2610SEF	Data Analytics with Applications	3

Table 2: Elective Courses (Group 1)

Course Code	Course Title	Credit-units
COMP 3130SEF	Mobile Application Programming	3
COMP 3500SEF	Software Engineering	3
COMP 3510SEF	Software Project Management	3
COMP 3920SEF	Machine Learning	3

Table 3: Elective Courses (Group 2)

Course Code	Course Title	Credit-units
COMP 4820SEF	Data Mining and Analytics	3
COMP 4930SEF	Deep Learning	3

Course Code	Course Title	Credit-units
ELEC 4060SEF	Wireless Networks	3
ELEC 4200SEF	Biomedical Instrumentation and Sensors	3
ELEC 4210SEF	Biomedical Informatics	3
ELEC 4310SEF	Blockchain Technologies	3
ELEC 4370SEF	Digital Signal Processing	3
ELEC 4380SEF	Digital Communications	3
ELEC 4480SEF	IoT Security	3
ELEC 4710SEF	Digital Forensics	3

Table 4: University Core Courses

Course Code	Course Title	Credit-units
UNI 1002ABW	University Core Values	2
UNI 1012ABW	Social Responsibilities	1
UNI 2002BEW	Effective Communication and Teamwork	3
UNI 3002BEW	Entrepreneurial Mindset and Leadership for Sustainability	3

Table 5: University English courses

Course Code	Course Title	Credit-units
ENGL 1101AEF	University English: Reading and Writing	3
ENGL 1202EEF	University English: Listening and Speaking	3

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