

Programme Requirements for Bachelor of Science with Honours in Cyber and Computer Security

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

<i>Year of Entry</i>	<i>Admission cohort</i>
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 Science with Honours in Cyber and Computer Security through Year 1 Entry, a student shall:

1.1.1 obtain 120 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 applicable to Year 1 entry as listed in Table 1;
- 1.1.1.2 3 credit-units of elective courses (Group 1) in Table 2;
- 1.1.1.3 15 credit-units of elective courses (Group 2) in Table 3, of which at least 12 credit-units shall be at 4000-level;
- 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 in Table 5;
- 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)

and

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

2. Programme Requirement – Year 2 Entry

2.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Cyber and Computer Security through Year 2 Entry, a student shall:

2.1.1 obtain 90 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

- 2.1.1.1 63 credit-units of core courses applicable to Year 2 entry as listed in Table 1;
- 2.1.1.2 3 credit-units of elective courses (Group 1) in Table 2;

2.1.1.3 15 credit-units of elective courses (Group 2) in Table 3, of which at least 12 credit-units shall be at 4000-level;

2.1.1.4 9 credit-units of University Core courses in Table 4;

and

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

3. Programme Requirement – Year 3 Entry

3.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Cyber and Computer Security through Year 3 Entry, a student shall:

3.1.1 obtain 60 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and at least 24 credit-units shall be at 4000-level:

3.1.1.1 33 credit-units of core courses applicable to Year 3 entry as listed in Table 1;

3.1.1.2 3 credit-units of elective courses (Group 1) in Table 2;

3.1.1.3 15 credit-units of elective courses (Group 2) in Table 3, of which at least 12 credit-units shall be at 4000-level;

3.1.1.4 9 credit-units of University Core courses in Table 4;

and

3.1.2 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	Year Entry		
			1	2	3
COMP 1080SEF	Introduction to Computer Programming	3	✓	✓	
COMP 2090SEF	Data Structures, Algorithms and Problem Solving	3	✓	✓	
COMP 2640SEF	Discrete Mathematics	3	✓	✓	
COMP 2660SEF	Computer Architecture	3	✓	✓	
COMP 2670SEF	Operating Systems	3	✓	✓	
COMP 3810SEF	Server-Side Technologies and Cloud Computing	3	✓	✓	✓
ELEC 1010SEF	Digital Logic Design	3	✓		
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 3050SEF	Computer Networking	3	✓	✓	✓
ELEC 3150SEF	Routing and Switching Technologies	3	✓	✓	✓
ELEC 3250SEF	Computer and Network Security	3	✓	✓	✓
ELEC 3630SEF	Advanced Computer Design	3	✓	✓	✓
ELEC 3650SEF	Ethical Hacking Techniques	3	✓	✓	✓
ELEC 3720SEF	Professional Practice in Cyber Security	3	✓	✓	✓
ELEC 4110SEF	Final Year Project	6	✓	✓	✓
ELEC 4480SEF	IoT Security	3	✓	✓	✓
ELEC 4710SEF	Digital Forensics	3	✓	✓	✓
IT 2900SEF	Human Computer Interface and User Experience Design	3	✓	✓	
MATH 1410SEF	Algebra and 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 3920SEF	Machine Learning	3
ELEC 3470SEF	Multimedia Technologies	3

Table 3: Elective Courses (Group 2)

Course Code	Course Title	Credit-units
COMP 4330SEF	Advanced Programming and AI Algorithms	3
COMP 4620SEF	Concurrent and Networks Programming	3
COMP 4630SEF	Distributed Systems and Parallel Computing	3
COMP 4820SEF	Data Mining and Analytics	3
COMP 4930SEF	Deep Learning	3
ELEC 3040SEF	Communication Systems	3
ELEC 4020SEF	Professional Placement	3
ELEC 4060SEF	Wireless Networks	3
ELEC 4210SEF	Biomedical Informatics	3
ELEC 4310SEF	Blockchain Technologies	3
ELEC 4380SEF	Digital Communications	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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