

Programme Requirements for Bachelor of Science with Honours in Computer Engineering

This 3-credit-unit system programme requirements document is applicable to students admitted in 2025 Autumn Term and thereafter.

1. Programme Requirement – Year 3 Entry

1.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Computer Engineering through Year 3 Entry, a student shall:

1.1.1 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:

1.1.1.1 30 credit-units of core courses as listed in Table 1;

1.1.1.2 18 credit-units of elective courses from Table 3;

1.1.1.3 an additional 3 credit-units of elective courses from either Table 2 or 3; and

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

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 3130SEF	Mobile Application Programming	3
COMP 3500SEF	Software Engineering	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 4110SEF	Final Year Project	6
ENGG 3280SEF	Engineering Professional Practice	3

Table 2: Elective Courses (Group 1)

Course Code	Course Title	Credit-units
COMP 3510SEF	Software Project Management	3
ELEC 3040SEF	Communication Systems	3

Table 3: Elective Courses (Group 2)

Course Code	Course Title	Credit-units
COMP 4820SEF	Data Mining and Analytics	3
ELEC 4010SEF	Professional Placement	3
ELEC 4060SEF	Wireless Networks	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
TC 4019SEF	Quality Management for Science and Technology	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

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