

## Programme Requirements for Bachelor of Science with Honours in Computing and Networking and Bachelor of Science in Computing and Networking

This 3-credit-unit system programme requirements document is applicable to students admitted in 2023 Autumn term and thereafter.

### 1. Entry Requirement

- 1.1 To enter the **Bachelor of Science with Honours in Computing and Networking** programme through Pathway 1 or the **Bachelor of Science in Computing and Networking** programme through Pathway 1, a student shall normally possess a recognized Associate Degree or Higher Diploma in Computing or closely related disciplines.

### 2. Programme Requirement – Bachelor of Science with Honours in Computing and Networking (BSCICNH)

- 2.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Computing and Networking, a student shall:
- 2.1.1 obtain 120 credit-units as prescribed below, of which no more than 30 credit-units shall be at 1000-level, and at least 24 credit-units shall be at 3000-level and 24 credit-units at 4000-level:
    - 2.1.1.1 18 credit-units from courses labelled FD in Table 1;
    - 2.1.1.2 36 credit-units from courses labelled CD in Table 1;
    - 2.1.1.3 12 credit-units from course labelled D1 in Table 1;
    - 2.1.1.4 24 credit-units from course labelled D2 in Table 1;
    - 2.1.1.5 6 credit-units from course labelled D3 in Table 1;
    - 2.1.1.6 9 credit-units from any undergraduate courses offered by the University at 1000-level or above with no more than 3 credit-units at 1000 level;
    - 2.1.1.7 6 credit-units of University English courses labelled UEC in Table 1;
    - 2.1.1.8 9 credit-units of University Core courses labelled UCC in Table 1;
- and
- 2.1.2 attain the CGPA for graduation as prescribed in the Regulations for the Award of Undergraduate Degrees.

### 3. Programme Requirement – Bachelor of Science with Honours in Computing and Networking (through Pathway 1) (BSCICNH1)

- 3.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Computing and Networking through Pathway 1, a student shall:

3.1.1 obtain 63 credit-units as prescribed below, of which at least 24 credit-units shall be at 3000-level and 24 credit-units at 4000-level:

3.1.1.1 24 credit-units from 3000/4000-level courses labelled CD and D1 in Table 1;

3.1.1.2 24 credit-units from courses labelled D2 in Table 1;

3.1.1.3 6 credit-units from courses labelled D3 in Table 1;

3.1.1.4 9 credit-units of University Core courses labelled UCC in Table 1;

and

3.1.2 attain the CGPA for graduation as prescribed in the Regulations for the Award of Undergraduate Degrees.

#### **4. Programme Requirement – Bachelor of Science in Computing and Networking (BSCICN)**

4.1 To be eligible for the award of the degree of Bachelor of Science in Computing and Networking, a student shall:

4.1.1 obtain 90 credit-units as prescribed below, of which no more than 30 credit-units shall be at 1000-level, and at least 24 credit-units shall be at 3000-level and/or 4000-level:

4.1.1.1 18 credit-units from courses labelled FD in Table 1;

4.1.1.2 36 credit-units from courses labelled CD in Table 1;

4.1.1.3 6 credit-units from courses labelled D1 in Table 1;

4.1.1.4 12 credit-units from course labelled D2 in Table 1;

4.1.1.5 3 credit-units from any undergraduate courses offered by the University at 1000-level or above;

4.1.1.6 6 credit-units of University English courses labelled UEC in Table 1;

4.1.1.7 9 credit-units of University Core courses labelled UCC in Table 1;

and

4.1.2 attain the CGPA for graduation as prescribed in the Regulations for the Award of Undergraduate Degrees.

#### **5. Programme Requirement – Bachelor of Science in Computing and Networking (through Pathway 1) (BSCICN1)**

5.1 To be eligible for the award of the degree of Bachelor of Science in Computing and Networking through Pathway 1, a student shall:

5.1.1 obtain 33 credit-units as prescribed below, of which at least 24 credit-units shall be at least 3000-level and/or 4000-level:

5.1.1.1 12 credit-units from 3000/4000-level courses labelled CD in Table 1;

5.1.1.2 6 credit-units from courses labelled D1 in Table 1;

5.1.1.3 6 credit-units from courses labelled D2 in Table 1;

5.1.1.4 9 credit-units of University Core courses labelled UCC in Table 1;

and

5.1.2 attain the CGPA for graduation as prescribed in the Regulations for the Award of Undergraduate Degrees.

**Table 1**

Course Code	Course Title	Credit-units	Course label
IT 1010SED	Introduction to Information and Communications Technology	6	FD
IT 1230SED	Introduction to Internet Services and Applications	6	FD
MATH 1210SED	A Foundation in Pure Mathematics	6	FD
COMP 2010SED	Computing Fundamentals with Java	6	CD
COMP 2120SED	Network Programming and Design	6	CD
COMP 2580SED	Computer Programming and Problem Solving	6	CD
COMP 2600SED	Computer Architecture and Operating Systems	6	CD
COMP 4560SED	Software Engineering and Project Management	6	CD
ELEC 3320SED	Computer Networks	6	CD
COMP 3110SED	Advanced Java Programming and Mobile Application Development	6	D1
COMP 3590SED	Relational Databases: Theory and Practice	6	D1
COMP 4680SED	Networks and Distributed Systems	6	D2
COMP 4910SED	Machine Learning and Applications	6	D2
ELEC 3240SED	Computers and Processors	6	D2
ELEC 4230SED	Information Theory and Digital Communications	6	D2
COMP 4500SED	Applied Computing Project	6	D3
<b>University Core Courses</b>			
UNI 1001ABW	University Core Values	2	UCC
UNI 1011ABW	Social Responsibilities	1	UCC
UNI 2001BEW	Effective Communication and Teamwork	3	UCC
UNI 3001BEW	Entrepreneurial Mindset and Leadership for Sustainability	3	UCC
<b>University English Courses</b>			
ENGL 1101AED	University English: Reading and Writing	3	UEC
ENGL 1202EED	University English: Listening and Speaking	3	UEC

May 2023