

Programme Requirements for Bachelor of Science with Honours in Electronics and Bachelor of Science in Electronics

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 Electronics** programme through Pathway 1 or the **Bachelor of Science in Electronics** programme through Pathway 1, a student shall normally possess a recognized Higher Diploma or Associateship in Electronic, Computer and Information Engineering or closely related disciplines.

2. Programme Requirement – Bachelor of Science with Honours in Electronics (through Pathway 1) (BSCIEH1)

- 2.1 To be eligible for the award of the degree of Bachelor of Science with Honours in Electronics through Pathway 1, a student shall:
- 2.1.1 obtain 60 credit-units as prescribed below, of which 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 CD in Table 1;
 - 2.1.1.2 12 credit-units from courses labelled HD in Table 1;
 - 2.1.1.3 15 credit-units from course labelled CH in Table 1;
 - 2.1.1.4 6 credit-units from courses labelled OD in Table 1; and
 - 2.1.1.5 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 in Electronics (through Pathway 1) (BSCIE1)

- 3.1 To be eligible for the award of the degree of Bachelor of Science in Electronics through Pathway 1, a student shall:
- 3.1.1 obtain 33 credit-units as prescribed below, of which at least 24 credit-units shall be at least 3000-level and/or 4000-level:
- 3.1.1.1 12 credit-units from courses labelled CD or OD in Table 1, of which no more than 6 credit-units from courses labelled OD;
 - 3.1.1.2 12 credit-units from courses labelled HD in Table 1;
 - 3.1.1.3 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.

Table 1

Course Code	Course Title	Credit-units	Course label
ELEC 3220SED	Circuit Analysis and Logic Design	6	CD
ELEC 3250SED	Electronic Circuit Analysis and Design	6	CD
ELEC 3320SED	Computer Networks	6	CD
ELEC 4230SED	Information Theory and Digital Communications	6	HD
ELEC 4340SED	Signal Processing and Multimedia Technology	6	HD
ELEC 4020SED	Electronics Project Course	12	CH
ENGG 3280SED	Engineering Professional Practice	3	CH
ELEC 3240SED	Computers and Processors	6	OD
COMP 3110SED	Advanced Java Programming and Mobile Application Development	6	OD
COMP 3590SED	Relational Databases: Theory and Practice	6	OD
COMP 4560SED	Software Engineering and Project Management	6	OD
University Core Courses			
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

May 2023