Bachelor Of Science

Stream: General

Qualification code: 98801 - GEN **NQF Exit level:** 7 **Total credits:** 360 **APS: 20**

This qualification will be presented using both online and distance learning modes.

Admission requirements:

A National Senior Certificate (NSC) (Degree endorsement) or equivalent with at least 50% in the language of teaching and learning, 50% inMathematics and 50% in Physical Science, if any Physics or Chemistry modules form part of the curriculum of a selected qualification, or at least N4 Mathematics passed with a minimum of 50% and N4 English, or N4 Communication, or N4 Communication Technology passed with at least 50%, and at least N4 Engineering Science passed with a minimum of 50%, if any Physics or Chemistry modules form part of the qualification.

or
a Senior Certificate (SC) with matriculation exemption or qualify for the exemption from the Matriculation Board with at least a D symbol on HG or a C symbol on SG in the language of teaching and learning, and with at least a D symbol on HG or a C symbol on SG in Mathematics, and a D symbol on HG or a C symbol on SG in Physical Science, if any Physics or Chemistry modules form part of the curriculum of a selected qualification, or at least N4 Mathematics passed with a minimum of 50% and N4 English, or N4 Communication, or N4 Communication Technology passed with at least 50%, or and at least N4 Engineering Science passed with a minimum of 50%, if any Physics or Chemistry modules form part of the qualification.

or
Higher Certificate that satisfies the Mathematics, Physical Science and Language requirements.

Applicants who do not comply with the above requirements should consider applying for a lower-level qualification for which they meet the statutory and additional requirements.

Rules:

1. The curriculum for the BSC degree consists of:
   - a. THIRTY MODULES
   - b. At least TWENTY-FOUR of the thirty modules must be from the list below.
   - c. Not more than EIGHT of the thirty modules may be on the first level (NQF level 5).
   - d. At least TEN modules must be on third level (NQF level 7).
   - e. Not more than THREE courses on first year level (the equivalent of 6 modules) maybe in Subjects from the curricula of first Bachelor's degrees of other colleges.
   - f. The curriculum must include at least ONE MAJOR SUBJECT. For this purpose, each major consists of at least five modules on third level or NQF level 7. A particular module cannot be counted as a credit for more than one major subject. To complete BSC in one major, at least 15 modules in the discipline of the major must form part of BSC structure. A BSC can also have two majors and the above requirement will not be enforced in such a case.

g. Refer to Subjects and Modules on the website for the Major subject combination.

Example: BSC Degree with Computer Science and Chemistry as Major Subjects

First level

Module	Pre-requisite/Co-requisite/Recommendation
Computer Science	
COS1501 - Theoretical Computer Science I	
COS1511 - Introduction to Programming I	
COS1512 - Introduction to Programming II	Co-requisite: COS1511
Chemistry	
CHE1501 - General Chemistry IA	
CHE1502 - General Chemistry IB	Co-requisite: CHE1501
CHE1503 - Chemistry I (Practical)	Co-requisite: CHE1501 & CHE1502
MAT1512 - Calculus A	
Plus 1 other module from the College	

Second level

Module	Pre-requisite/Co-requisite/Recommendation
Computer Science	
COS2601 - Theoretical Computer Science II	Pre-requisite: COS1501
COS2611 - Programming: Data Structures	Pre-requisite: COS1512 Recommendation: Access to PC and Internet
COS2614 - Programming: Contemporary Concepts	Pre-requisite: COS1511 and COS1512
COS2661 - Formal Logic II	Pre-requisite: COS1501
Chemistry	
CHE2611 - Inorganic Chemistry II (Theory)	Pre-requisite: CHE1501, CHE1502 & CHE1503
CHE2621 - Inorganic Chemistry II (Practical)	Pre-requisite: CHE1501, CHE1502 & CHE1503 Co-requisite: CHE2611
CHE2612 - Physical Chemistry II (Theory)	Pre-requisite: CHE1501, CHE1502, CHE1503, MAT1512
CHE2622 - Physical Chemistry II (Practical)	Pre-requisite: CHE1501 & CHE1502,CHE1503 Co-requisite: CHE2612
CHE2613 - Organic Chemistry II (Theory)	Pre-requisite: CHE1502, CHE1502 & CHE1503
CHE2623 - Organic Chemistry II (Practical)	Pre: requisite: CHE1501, CHE1502, & CHE1503 Co-requisite: CHE2613
CHE2614 - Analytical Chemistry II (Theory)	Pre-requisite: CHE1501, CHE1502 & CHE1503
CHE2624 - Analytical Chemistry II (Practical)	Pre-requisite: CHE1501, CHE1502 & CHE1503 Co-requisite: CHE2614
MAT2612 - Introduction to Discrete Mathematics	Pre-requisite: COS1501 or MAT1512 or MAT1503
Plus 3 other modules from the College	

Third level

Module			Pre-requisite/Co-requisite/Recommendation
Computer Science			
COS3701	-	Theoretical Computer Science III	Pre-requisite: COS2601
COS3711	-	Advanced Programming	Pre-requisite: COS2611 & COS2614
COS3721	-	Operating Systems and Architecture	Pre-requisite: COS2614
COS3751	-	Techniques of Artificial Intelligence	Pre-requisite: COS2611 & COS2661
COS3761	-	Formal Logic III	Pre-requisite: COS2661
Chemistry			
CHE3701	-	Inorganic Chemistry III	Pre-requisite: CHE2611, CHE2621
CHE3702	-	Physical Chemistry III	Pre-requisite: CHE2612, CHE2622 & MAT1512
CHE3703	-	Organic Chemistry III	Pre-requisite: CHE2613, CHE2623
CHE3704	-	Analytical Chemistry III	Pre-requisite: CHE2614, CHE2624
CHE3721	-	Inorganic Chemistry III (Practical)	Co-requisite: CHE3701
CHE3722	-	Physical Chemistry III (Practical)	Co-requisite: CHE3702
CHE3723	-	Organic Chemistry III (Practical)	Co-requisite: CHE3703
CHE3724	-	Analytical Chemistry III (Practical)	Co-requisite: CHE3704

The letter M before the name of a subject indicates that it may be selected as a major subject.

Subjects			
M	Applied Mathematics	**M**	Botany
M	Statistics	**M**	Geography
M	Chemistry	**M**	Psychology
M	Computer Science	**M**	Microbiology
M	Information Systems	**M**	Physiology
M	Physics	**M**	Zoology
M	Mathematics	**M**	Archaeology
M	Operations Research (Offered by Decision Sciences)	**M**	Biochemistry
M	Biomedical Science	**M**	Biotechnology