

## Bachelor of Science

**Stream:** Extended Programme (General)

**Qualification code:** 98801 - XGE

**NQF Exit level:** 7

**Total credits:** 360    **APS:** 20    **SAQA:**35954

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

**Admission requirements:** A National Senior Certificate (Degree endorsement) with at least 50% in the language of teaching and learning, with at least 50% in Mathematics and Physical Science. Students will be streamed into the Extended Programme depending on their Academic Point Scores (APS). Students who do not meet the additional requirements may follow Unisa's alternative pathway.

**Rules:** In this qualification, registration is restricted to 60 credits in the first and second levels. It is strongly recommended to students to complete all the first level modules, followed by all the second level modules, before proceeding to register for the third or fourth level modules.

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 course on first year level (the equivalent of 6 modules) maybe in Subjects from the curricula of first Bachelor's degrees Of other colleges.
- f. Refer to my Modules. for the Major subject combination
- g. In this qualification, registration is restricted to 60 credits in the first and second levels. It is strongly recommended to students to complete all the first level modules, followed by all the second level modules, before proceeding to register for the third or fourth level modules.

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

#### First level

Module	Pre-requisite/Co-requisite/Recommendation
<b>Computer Science</b>	
XOS1501 - Theoretical Computer Science I	
XOS1511 - Introduction to Programming I	
<b>Chemistry</b>	
XHE1501 - General Chemistry IA	
XAT1512 - Calculus A	

Plus 1 other NQF level 5 extended module from the College

#### Second level

Module	Pre-requisite/Co-requisite/Recommendation
<b>Computer Science</b>	
XOS1512 - Introduction to Programming II	Pre-requisite: COS1511 (or XOS1511)
<b>Chemistry</b>	

XHE1502 - General Chemistry IB	Pre-requisite: CHE1501(or XHE1501)
CHE1503 - Chemistry I (Practical)	Pre-requisite: CHE1501 (or XHE1501) Co-requisite: CHE1502 (or XHE1502)

Plus 2 other NQF level 6 extended modules from the College

### Third level

Module	Pre-requisite/Co-requisite/Recommendation
<b>Computer Science</b>	
COS2601 - Theoretical Computer Science II	Pre-requisite: COS1501(or XOS1501) or MAT2612
COS2611 - Programming: Data Structures	Pre-requisite: COS1512 (or XOS1512)
COS2614 - Programming: Contemporary Concepts	Pre-requisite: COS1512 (or XOS1512)
COS2661 - Formal Logic II	Pre-requisite: COS1501 (or XOS1501)
<b>Chemistry</b>	
CHE2611 - Inorganic Chemistry II (Theory)	Pre-requisite: CHE1501, CHE1502 & CHE1503 Co-requisite: MAT1512
CHE2621 - Inorganic Chemistry II (Practical)	Pre-requisite: CHE1501, CHE1502 & CHE1503 Co-requisite: CHE2611
CHE2612 - Physical Chemistry II (Theory)	Pre-requisite: CHE2614 & CHE2624 Co-requisite: MAT1512
CHE2622 - Physical Chemistry II (Practical)	Pre-requisite: CHE2614 & CHE2624 Co-requisite: MAT1512 & CHE2612
CHE2613 - Organic Chemistry II (Theory)	Pre-requisite: CHE2611 & CHE2621
CHE2623 - Organic Chemistry II (Practical)	Pre-requisite: CHE2611 & CHE2621 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 & MAT1512
MAT2612 - Introduction to Discrete Mathematics	Pre-requisite: MAT1512
Plus 1 other module from the College	

### Fourth level

Module	Pre-requisite/Co-requisite/Recommendation
<b>Computer Science</b>	
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
<b>Chemistry</b>	
CHE3701 - Inorganic Chemistry III	Pre-requisite: CHE2611, CHE2621
CHE3702 - Physical Chemistry III	Pre-requisite: CHE2612 & CHE2622
CHE3703 - Organic Chemistry III	Pre-requisite: CHE2613, CHE2623
CHE3704 - Analytical Chemistry III	Pre-requisite: CHE2614, CHE2624
CHE3721 - Inorganic Chemistry III (Practical)	Pre-requisite: CHE2611 & CHE2621 Co-requisite: CHE3701
CHE3722 - Physical Chemistry III (Practical)	Pre-requisite: CHE2612 & CHE2622

CHE3723 - Organic Chemistry III (Practical)	Co-requisite: CHE3702
	Pre-requisite: CHE2613 & CHE2623
	Co-requisite: CHE3703
CHE3724 - Analytical Chemistry III (Practical)	Pre-requisite: CHE2614 & CHE2624
	Co-requisite: CHE3704

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

<b>Subjects</b>	
M Applied Mathematics	M Botany
Astronomy	M Geography
M Chemistry	Geology
M Computer Science	M Microbiology
M Information Systems	M Physiology
M Physics	M Zoology
M Mathematics	Biology
M Operations Research	M Archaeology
M Statistics	Comprehension Skills for Science
M Biochemistry	M Psychology