

## DIPLOMA IN NATURE CONSERVATION

Qualification code: DPNC20 - NQF Level 6 (360 credits)

SAQA ID: 112485, CHE NUMBER: H/H16/E128CAN

Campus where offered:

Pretoria Campus

### REMARKS

a. *Admission requirement(s) and selection criteria:*

• **APPLICANTS WITH A SENIOR CERTIFICATE OBTAINED BEFORE 2008:**

**Admission requirement(s):**

A Senior Certificate or an equivalent qualification, with a D symbol at Standard Grade for English and either Biology, Physical Science or Mathematics.

**Recommended subject(s):**

None.

**Selection criteria:**

Assessment is based on the normal M-score with a weighted Swedish scale.

SYMBOL	HG VALUE	SG VALUE
A	6	5
B	5	4
C	4	3
D	3	2
E	2	1

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **24**.

• **APPLICANTS WITH A NATIONAL SENIOR CERTIFICATE OBTAINED IN OR AFTER 2008:**

**Admission requirement(s):**

A National Senior Certificate with a bachelor's degree or a diploma endorsement, or an equivalent qualification, with an achievement level of at least 4 for English (home language or first additional language) and 3 for Mathematics or Technical Mathematics or 4 for Mathematical Literacy.

**Recommended subject(s):**

Agricultural Sciences, Geography, Life Sciences, Physical Sciences or Technical Sciences.

**Selection criteria:**

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **24** (with Mathematics or Technical Mathematics) or **25** (with Mathematical Literacy).

• **APPLICANTS WITH A NATIONAL CERTIFICATE (VOCATIONAL) AT NQF LEVEL 4:**

**Admission requirement(s):**

A National Certificate (Vocational) with a bachelor's degree or a diploma endorsement, with at least 50% for English (home language or first additional language) and 40% for Mathematics or 50% Mathematical Literacy, 40% for Life Orientation (excluded for APS calculation) and 50% for any other three compulsory vocational subjects.



**Selection criteria:**

To be considered for this qualification, applicants must have an Admission Point Score (APS) of at least **24** (with Mathematics or Technical Mathematics) or **25** (with Mathematical Literacy).

**b. Assessment procedure(s):**

Applicants with the minimum APS will be considered for admission until the programme complement is full.

Acceptance is subject to available capacity according to the Student Enrolment Plan (SEP). Once a programme is full, a waiting list will be in place to provide an opportunity for applicants to fill places of those who did not register on time. Applicants will be informed of their status per official letter from the Office of the Registrar, alternatively, they can check their application status on the TUT website, [www.tut.ac.za](http://www.tut.ac.za).

**c. Minimum duration:**

Three years.

**d. Presentation:**

Day classes.

**e. Intake for the qualification:**

January only.

**f. Exclusion and readmission:**

See Chapter 2 of Students' Rules and Regulations.

**g. Recognition of Prior Learning (RPL), equivalence and status:**

See Chapter 30 of Students' Rules and Regulations.

**h. Training excursions, field trips and practicals:**

Training excursions, field trips and practical classes are compulsory and involve additional expenses, over and above the class fees. Basic camping equipment is also required. Students will be provided with further details at registration.

**i. General:**

It is compulsory to wear the required uniform during certain practical classes. Uniforms may also be worn to class and to practicals. Students will be provided with details about uniforms at registration. The nature of the training involves a degree of risk, and although all reasonable precautions are taken by the University and the Department to prevent accidents and injuries, it is recommended that students take out insurance. More information is available at registration.

**j. Work-Integrated Learning I:**

See Chapter 5 of Students' Rules and Regulations.

## CURRICULUM

### FIRST YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
ALN105D	Administration and Legislation I	(5)	(12)	
ANS105D	Animal Studies I	(5)	(24)	
CAP105X	Communication for Academic Purposes	(5)	(10)	
CEY105D	Conservation Ecology I	(5)	(18)	
INF125D	Information Literacy (block module)	(5)	(3)	
LIT105D	Computer Literacy	(5)	(9)	
LFS125X	Life Skills (block module)	(5)	(2)	

PSU105D	Plant Studies I	(5)	(24)
RSG105D	Resource Management I	(5)	(18)

TOTAL CREDITS FOR THE FIRST YEAR: **120**

## SECOND YEAR

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
ANS206D	Animal Studies II	(6)	(24)	Animal Studies I
CCO206D	Conservation Communication I	(6)	(18)	
CEY206D	Conservation Ecology II	(6)	(18)	Conservation Ecology I
ESC206D	Earth Science I	(6)	(18)	
PSU206D	Plant Studies II	(6)	(24)	Plant Studies I
RSG206D	Resource Management II	(6)	(18)	Resource Management I

TOTAL CREDITS FOR THE SECOND YEAR: **120**

## THIRD YEAR

After completion of first- and second-year modules.

CODE	MODULE	NQF-L	CREDIT	PREREQUISITE MODULE(S)
WNC306D	Work-Integrated Learning I	(6)	(120)	

TOTAL CREDITS FOR THE THIRD YEAR: **120**

TOTAL CREDITS FOR THE QUALIFICATION: **360**

## MODULE INFORMATION (OVERVIEW OF SYLLABUS)

The syllabus content is subject to change to accommodate industry changes. Please note that a more detailed syllabus is available at the Department or in the study guide that is applicable to a particular module. At time of publication, the syllabus content was defined as follows:

### A

#### ADMINISTRATION AND LEGISLATION I (ALN105D) 1 X 3-HOUR PAPER (Module custodian: Department of Nature Conservation)

Introduction to the most important basic components of administration – personnel, financial and general principles as well as all legislation applicable to the field of nature conservation. Students who complete the module successfully, will be able to demonstrate knowledge, skills and applied competencies in areas such as, but not limited to Conservation Legislation, Law Enforcement, and Conservation Regulations. (Total tuition time: ± 120 hours)

#### ANIMAL STUDIES I (ANS105D) 1 X 3-HOUR PAPER (Module custodian: Department of Nature Conservation)

Introduction to taxonomic and morphological characteristics, life cycles, adaptations, and ecological importance of invertebrate and vertebrate animals. Concepts in animal diseases, the vectors driving infection, treatment and control of exotic and indigenous diseases. (Total tuition time: ± 240 hours)

#### ANIMAL STUDIES II (ANS206D) 1 X 3-HOUR PAPER (Module custodian: Department of Nature Conservation)

Introduction to the most important terms and concepts of Zoogeography and Animal Ethology. In addition, the student will be introduced to the principles of Animal Behavioural Ecology and Human-Wildlife interactions. (Total tuition time: ± 240 hours)

**C****COMMUNICATION FOR ACADEMIC PURPOSES (CAP105X)****1 X 3-HOUR PAPER****(Module custodian: Department of Applied Languages)**

A workable knowledge of English is an essential skill for any graduate who is required to conduct themselves successfully in a professional working environment. This module will equip students with the competencies required to compose a selection of written texts related to communicating both internally and externally within a professional environment. In addition, the module includes strategies that are essential for the effective communication in various situations, including small groups to avoid unproductive conflict, a multicultural context, etc. (Total tuition time: not available)

**COMPUTER LITERACY (LIT105D)****CONTINUOUS ASSESSMENT****(Module custodian: End User Computing Unit)**

Introduction of information literacy. Development of a search strategy and application of a search string to search engines and academic databases. Evaluation of information sources. Ethical and legal use of information. (Total tuition time: not available)

**CONSERVATION COMMUNICATION I (CCO206D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the basic principles of communication and creating awareness of the skills and competencies needed to communicate effectively in a general work environment, specifically in the conservation, wildlife and ecotourism industry. Secondly, this module addresses Environmental Education (EE), which focuses on introduction to EE in general, the importance and history of EE, sustainable living and development, trends in EE and student-centred and teacher-centred activities. Thirdly, guiding principles are introduced. This section of the module focuses on providing the student with a deeper conceptual understanding of guiding, focusing on nature-based guiding principles, types of guides, preparation, trails and legal aspects of the guiding trade. (Total tuition time: ± 180 hours)

**CONSERVATION ECOLOGY I (CEY105D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the most important ecological principles as they affect the individual organism in the environment as well as the ecological co-actions, which occur within and between populations. This will enable the student to apply these principles as they affect the management of natural resources. (Total tuition time: ± 180 hours)

**CONSERVATION ECOLOGY II (CEY206D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the most important abiotic and biotic components of all regions of the planet. Specific reference to functioning and classification of regional and local savanna and grassland. Further, the integration of people to the environment - the rise and history of conservation and South Africa's current conservation estate, role players and international obligations. Finally, the South African model of environmental compliance in development. (Total tuition time: ± 180 hours)

**E****EARTH SCIENCE I (ESC206D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the most important geological, edaphological and soil classification methodologies or principles as well as the collection of climatic information and the integration of this data into various maps to be utilised in the development of adaptive managerial plans. Knowledge of areas of specialisation and how that knowledge relates to other fields, such as Edaphology, Geology, and Cartography. (Total tuition time: ± 180 hours)

**I****INFORMATION LITERACY (INF125D)****CONTINUOUS ASSESSMENT****(Module custodian: Directorate of Library and Information Services)**

Introduction of information literacy. Development of a search strategy and application of a search string to search engines and academic databases. Evaluation of information sources. Ethical and legal use of information. (Total tuition time: not available)



**L****LIFE SKILLS (LFS125X)****CONTINUOUS ASSESSMENT****(Module custodian: Directorate of Student Development and Support)**

Academic, personal and socio-emotional skills development for students in higher education. Personal and social dimensions address: effective planning and self-management (goal setting and time management); Adjusting to university life (student life, diversity and change); Intra- and interpersonal skills development (conflict management, self-esteem, relationship management); Effective living (healthy living, HIV education, substance abuse); Academic dimension addresses: academic skills for university (e.g. critical thinking, creativity, managing assignments and assessments). (Total tuition time: not available)

**P****PLANT STUDIES I (PSU105D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the discipline of botany, botanical terminology, plant morphology, anatomy and physiology. Knowledge, skills and applied competencies in areas such as, but not limited to Botanical Taxonomy and Systematics, Plant Cytology, and Plant Physiology and Organography. (Total tuition time: ± 240 hours)

**PLANT STUDIES II (PSU206D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the concept of a herbarium, plant taxonomy and use of diagnostic characters to identify South African plant families. Detailed knowledge of the main areas of the discipline, including an understanding of and an ability to apply the key terms, concepts, facts, principles, rules and theories of that discipline to unfamiliar but relevant contexts; and knowledge of areas of specialisation. (Total tuition time: ± 240 hours)

**R****RESOURCE MANAGEMENT I (RSG105D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Introduction to the ecological principles involved in natural resource management. Integrated theoretical knowledge underpin the practical management considerations for a wide range of topics, all central to the wise use and management of resources in conservation areas. Knowledge, skills and applied competencies in areas such as, but not limited to the management of resources in conservation areas. (Total tuition time: ± 180 hours)

**RESOURCE MANAGEMENT II (RSG206D)****1 X 3-HOUR PAPER****(Module custodian: Department of Nature Conservation)**

Demonstrate an understanding and familiarity with principles involved in setting up an ecological management plan for a conservation area. Integrated theoretical knowledge and requisites essential for the monitoring and management of environmental parameters on a conservation area. Detailed knowledge of the main areas of the discipline, including an understanding of and an ability to apply the key terms, concepts, facts, principles, rules and theories of that discipline to unfamiliar but relevant contexts; and knowledge of areas of specialisation and how that knowledge relates to Conservation Management and Game Ranch planning. (Total tuition time: ± 180 hours)

**W****WORK-INTEGRATED LEARNING I (WNC306D)****WORK-INTEGRATED LEARNING****(Module custodian: Department of Nature Conservation)**

Practical understanding of the principles involved in setting up an ecological management plan for a conservation area associated with work-integrated learning. Ability to apply the key terms, concepts, facts, principles, rules and theories of conservation to unfamiliar but relevant contexts; and knowledge of areas of specialisation. (Total tuition time: ± 1200 hours)

