



# University of Pretoria Yearbook 2024

## Bachelor of Dental Surgery [BChD] (10136001)

**Department** Dentistry General

**Minimum duration of study** 5 years

**Total credits** 1052

**NQF level** 08

### Programme information

**NB:** Selection of candidates takes place prior to admission.

The General Academic Regulations G1-G15 are applicable to bachelor's degrees.

Each student in Dentistry must apply to the Registrar of the Health Professions Council of South Africa for registration as a student in Dentistry, within two months after the commencement of the first year of study.

### Admission requirements

#### Important information for all prospective students for 2024

The admission requirements below apply to all who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC)** and **Independent Examination Board (IEB)** qualifications. [Click here for this Faculty Brochure.](#)

#### Minimum requirements

##### Achievement level

##### English Home

##### Language or

##### English First

##### Additional

##### Language

NSC/IEB

5

##### Mathematics

NSC/IEB

6

##### Physical Sciences

NSC/IEB

5

##### APS

**35**

The suggested second-choice programme is any BSc biological sciences programme.

#### Midyear intake from BSc to BChD

A limited number of places are reserved for new first-year students in the second semester of year one. The selection for the midyear intake is based on merit.

Learners who apply in their final school year and were not selected for BChD, and who wish to apply for admission to BChD in the second semester may register for any BSc biological sciences programme with the following modules: Chemistry (CMY 151), Physics (PHY 131), Molecular and Cell Biology, Science and Worldviews (FIL 155), People and their Environment (MGW 112) and Medical Terminology (MTL 180).

**Note:** To be eligible for the midyear selection, students must have an APS of at least 35 and a minimum of 70%



for Mathematics in their final NSC or equivalent examination. Only first-year registered BSc students at UP with no previous tertiary (University, University of Technology or College) training will be considered. Students enrolled for the BSc Extended programme – Biological and Agricultural Sciences, do not qualify to apply for the midyear intake. Admission is subject to a selection process, and complying with the requirements does not guarantee admission.

Life Orientation is excluded when calculating the APS.

Applicants currently in Grade 12 must apply with their final Grade 11 (or equivalent) results.

Applicants who have completed Grade 12 must apply with their final NSC or equivalent qualification results.

Please note that meeting the minimum academic requirements does not guarantee admission.

Successful candidates will be notified once admitted or conditionally admitted.

Applicants should check their application status regularly on the UP Student Portal at [click here](#).

**Applicants with qualifications other than the abovementioned** should refer to the Brochure: Undergraduate Programme Information 2024: Qualifications other than the NSC and IEB, available at [click here](#).

**International Students:** [Click here](#)

A limited number of places are made available to citizens from countries other than South Africa (applicants who are not South African citizens), with those from SADC countries being given preference. Applicants who have multiple citizenships, including South African citizenship, will be considered to be South African.

### **Transferring students**

A transferring student is a student who, at the time of applying at the University of Pretoria (UP) is/was a registered student at another tertiary institution. A transferring student will be considered for admission based on NSC or equivalent qualification and previous academic performance. Students who have been dismissed from other institutions due to poor academic performance will not be considered for admission to UP.

**Closing dates:** Same as above

### **Returning students**

A returning student is a student who, at the time of application for a degree programme is/was a registered student at UP, and wants to transfer to another degree at UP. A returning student will be considered for admission based on NSC or equivalent qualification and previous academic performance.

- Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP, as per faculty-specific requirements.
- Only ONE transfer between UP faculties and TWO transfers within a faculty will be allowed.
- Admission of returning students will always depend on the faculty concerned and the availability of space in the programmes for which they apply.

**Closing date for applications from returning students** is the same as the above

**Note:** Any deliberate omission of information, or false information provided by an applicant in the application may result in the immediate cancellation of the application, admission or registration

## **Additional requirements**

- a. Candidates are not allowed to complete their first year of study at another university.
- b. In terms of the selection procedure, candidates must pass English, Mathematics and Physical Science with at least a 5 rating code (60%- 69%), and achieve an APS of at least 35, in order to be considered for selection



and/or admission.

- c. At the conclusion of the selection process, candidates are informed in writing regarding the outcome.
- d. Admission of foreign students to the BChD degree programme is limited to one annually. Only applications of candidates from SADC countries are accepted.
- e. School-leaving candidates with no previous tertiary exposure, who have not been admitted to the first year of study for the BChD degree programme may register for the BSc degree programme in medical sciences or biological sciences at the University, provided that they comply with the admission requirements for the programme in question. A candidate who completes the first semester of such a degree programme successfully, may apply to be considered for admission to the second semester of BChD I on the grounds of this achievement. If successful, the student may be admitted to the second semester of BChD I.

## Other programme-specific information

### Types of modules

Please take note of the different categories of modules in this degree.

### First year of study

#### First semester

##### Examination modules

CMY 151 Chemistry 151

FIL 155 Science and world views 155

MGW 112 People and their environment 112

MLB 111 Molecular and cell biology 111

PHY 131 General physics 131

MTL 180 Medical terminology 180

#### Second semester

##### Examination modules

SEP 119 Sepedi 119

##### Progression modules

GNK 188 Anatomy 188

IDE 180 Integrated dentistry 180

POH 170 Public oral health 170

- Apart from the examination modules mentioned above, the following compulsory academic information management module must also be passed during the first semester of the first year of study: AIM 111 and AIM 121.
- All new first-year students at the University must write an academic literacy test. On the grounds of the outcome of this test, students will either be exempted from the following academic literacy modules, or if they have failed the test mentioned above, will be required to pass in the relevant modules: ELH 111 and 112
- The first semester of the year module PHY 181 is the same as PHY 131.
- Students are exempted from the language module(s) on the basis of the successful completion of a language proficiency test at the beginning of the year.

### Second year of study

#### First semester

##### Examination modules

AFR 111 Afrikaans 111



GPS 280 Generic procedural skills 280

GNK 289 Anatomy 289

**Examination modules**

FSG 280 Physiology 280

GNK 286 Basic emergency care 286

MDB 280 Oral biology 280

ZUL 110 IsiZulu 110

GOM 270 General and oral microbiology 270

**Progression modules**

IDE 280 Integrated dentistry 280

POH 280 Public oral health 280

ODO 270 Odontology 270

PRD 270 Prosthodontics 270

**Third year of study**

**Examination modules**

TGG 380 Applied medicine 380

FAR 370 Pharmacology 370

ANP 380 Anatomical pathology 380

**Progression modules**

TBW 370 Comprehensive patient management 370

ODO 380 Odontology 380

PDL 380 Periodontology 380

ORD 380 Orthodontics 380

OFC 370 Orofacial surgery 370

RAD 380 Diagnostic imaging 380

POH 370 Public oral health 370

GPS 370 Generic procedural skills 370

PRD 380 Prosthodontics 380

**Fourth year of study**

**Examination module**

TMZ 470 Anaesthesiology 470

RAD 480 Diagnostic imaging 480

POH 470 Public oral health 470

**Progression modules**

ODO 470 Odontology 470

PDL 480 Periodontology 480

ORD 480 Orthodontics 480

OFC 470 Orofacial surgery 470

PRD 470 Prosthodontics 470

MFP 480 Maxillo-facial pathology 480

TBW 480 Comprehensive patient management 480

**Fifth year of study**

**Attendance modules**

RAD 580 Diagnostic imaging 580

POH 570 Public oral health 570



## Examination modules

ODO 570 Odontology 570  
PDL 570 Periodontology 570  
ORD 580 Orthodontics 580  
OFC 570 Orofacial surgery 570  
PRD 580 Prosthodontics 580  
MFP 580 Maxillo-facial pathology 580  
TBW 580 Comprehensive patient management 580

## Requirements for admission to specific modules

A student who has:

- obtained at least 50% in the final Grade 12 examination in Mathematics as well as in Physical Science, will be admitted to Molecular and cell biology (MLB 111), and a module in the subjects Chemistry, Physics, Zoology and Entomology, Genetics, Microbiology or Botany;
- obtained at least 50% in the final Grade 12 examination in Mathematics as well as in Physical Science, will be admitted to a module in Radiation Physics (RFI);
- obtained at least 50% in the final Grade 12 examination in either Physical Science or Life Sciences, will be admitted to modules in Occupational Therapy and Therapeutic Media;
- obtained at least 60% in the final Grade 12 examination in Mathematics, will be admitted to the module WTW 158 in Mathematics; and
- obtained at least 50% in the final Grade 12 examination in Mathematics, will be admitted to the module WTW 134 in Mathematics.

## Examinations and pass requirements

### Passing an Examination module

- A. A **module year mark** is calculated from the continuous evaluation opportunities during the course of the presentation of the module in question, according to a prescribed assessment plan, described in the module study guide. These evaluations shall include one or more of the following:
- Evaluations of competencies relating to cognition and application of knowledge.
  - Evaluations relating to clinical competencies (function effectively as oral physician which entails a consultation with patient, information gathering, problem identification, diagnostic reasoning, decision making, treatment- planning, implementation and procedural skills).
  - Continuous evaluation of competency relating to the integration of all graduate attributes/roles as oral health physician. (Role as an Ethical and Social responsive Professional/, Communicator, Collaborator/Team player, Scholar/Lifelong learner, Advocate/Promotor and Leader/Manager).
  - A final comprehensive examination moderated by external examiners.
  - The final module mark of an examination module is calculated from the module examination mark and the module year mark. The formula according to which the final module mark is calculated will be set out in the study guide and communicated to students at the commencement of the module.
  - A student who obtains a final mark of 50% will pass the examination module. A student who obtains between 40-49% as final mark in an examination module is admitted to a supplementary assessment. Should he or she fail the supplementary assessment, the year has to be repeated. A student who obtains a final mark of less than 40% has to repeat the year.



- vii. As a rule, the supplementary examination in question will take place in November/ December of the same year, or in January of the following year. A minimum of 50% is required in order to pass the supplementary examination. The maximum mark awarded for the passing of a supplementary examination is 50%.

### **Passing a Progression module**

A student who obtains a year mark of 50% will pass the progression module.

### **Repeating modules (and thus the year of study)**

- i. Students must pass all the modules of a particular year of study in order to be admitted to the next year of study.
- ii. Students who repeat the first or second year of study are exempted from the examination modules which have been passed in the unsuccessful year. The examination moderating meeting, in conjunction with the Dean/Chairperson of the School of Dentistry, retains the right to only award a pass mark in the said modules, if the student complies with the following requirements regarding those modules:
  - That the mark awarded to the relevant module was not awarded on the grounds of condonation;
  - That the contents of the module in the ensuing year correspond with the contents of the module concerned.
- iii. In order to comply with the requirements for (ii) above, the extent of involvement of students in successfully completed progression modules is determined by the relevant module chairperson, at the commencement of the year, and agreed with the student(s) concerned and communicated with the student(s) concerned in the module study guide or per letter. Students will however not have to register for modules already passed. A certificate of satisfactory preparation and maintenance of competency, must be obtained in the year of repetition in all attendance, progression and examination modules with a clinical/practical component already passed, in order to maintain a specific level of cognitive, psychomotor and affective skills.

### **Examinations and pass requirements, sub minima and continuous assessment mark**

- i. A student is admitted to an examination in a module only if he or she has prepared him- or herself satisfactorily through the proper execution of the work, and subject to other faculty stipulations has obtained a semester/year mark of at least 40%, provided that for all first-semester modules at the 100-level a student must obtain a semester mark of at least 30% in order to be admitted to the examination in the module(exit modules are excluded). Any other requirements for admission to the examination are set out in the study manuals. A final mark of at least 50% is required to pass.

#### **ii. Subminimum:**

A subminimum of 50% is required regarding cognition (knowledge and application of knowledge) of an assessment, with a subminimum level of competency of 50% in the clinical (cognitive, diagnostic and procedural and affective skills) component of a module. There may also be a subminimum for a subsection (units) of a module. At the beginning of the academic year, the relevant Head of a Department informs the students of the subminimum level of competency required in subsections of the modules offered by the Department in question. This information is also published in the study guide.

#### **iii. Continuous assessment mark:**

- A student obtains marks for practical and clinical work, for tests and also for assignments completed demonstrated during the course of an academic year.
- A student who repeats a year of study and who must acquire certificates of satisfactory preparation in failed modules must comply with all the requirements set by the relevant head of Department.

#### iv. **Supplementary assessment for Progression modules**

A student who obtains between 40-49% as year mark in progression modules, is admitted to a supplementary examination. Should he or she fail this supplementary examination/promotion test, the year has to be repeated. When a year of study has to be repeated, the student retains credit for the examination modules passed. See paragraph *Promotion to the next year of study* regarding the certificate of satisfactory preparation and progress, which must be obtained in the year of repetition in all progression modules already passed, as well as the extent of student involvement regarding progression modules already passed, in order to maintain a specific level of clinical/practical skills.

#### v. **Implications of failing the clinical part of a module**

A student who has failed the clinical part of any module in the final examination of the fifth year, will be required to repeat that module. There are no supplementary examinations for failed clinical components. The period which must elapse before the student may again sit an examination, is determined by the Chairperson of the School, on the recommendation of the examination moderating committee. A student who repeats a module, must obtain certificates of satisfactory maintenance of competency in all the other modules that have been passed.

#### vi. **Implications of failing the written part of a module**

A student who has failed the written part of any module or any subsection thereof in the final examination in the fifth year, may be admitted to a supplementary examination in that part of the module. A student who fails the supplementary examination may be required to repeat the module and may sit an examination at the end of the ensuing semester, but must obtain certificates of satisfactory maintenance of competency in all the other modules that the student has passed, in that part of the module, based on the conditions stipulated in paragraph vii, below.

#### vii. **Conditions to qualify for supplementary examinations in the fifth (final) year.**

Students who failed more than two modules in either the clinical or written component do not qualify for supplementary examinations and have to repeat all the modules failed. The maximum number of supplementary examinations allowed in final year of study is two and can only be awarded to students who have failed the written component of one or two of such modules.

## Promotion to next study year

### **Promotion to the next year of study**

The stipulations of the General Academic Regulations concerning satisfactory preparation and progress also apply to modules where a progression test is required. Supplementary examination marks and pass marks in promotion modules are awarded according to the stipulations of General Academic Regulation G10.3: Provided that:

- i. Promotion is based on theoretical and/or practical and/or clinical evaluation throughout the year and a minimum of 50% is required to be promoted.
- ii. A student, who has obtained a year mark of less than 50% can be admitted by the examination moderating meeting to a supplementary promotion test in the relevant progression module.
- iii. Students repeating a year of study retain credit for examination modules passed, unless determined otherwise, but a certificate of satisfactory preparation and progress must be obtained in all the progression modules.
- iv. In order to comply with the requirements for (iii) and to maintain a specified level of clinical skills, the extent



of involvement of students in successfully completed promotion modules is determined by the relevant module chairperson, at the commencement of the year, and agreed with the student(s) concerned.

### **Failed candidates/Admission to the second semester of BChD I**

- i. Selected first-year students, who have passed a sufficient number of prescribed first-semester modules at 100 level will, in accordance with the stipulations of the General Academic Regulations, automatically be admitted to the second semester of the first year of study. During the second semester, the students will be admitted to an examination on an anti-semester basis in the first-semester module(s) still outstanding, if this can be accommodated in the timetable.
- ii. During the second semester, students may follow the outstanding module(s) on an anti-semester basis and write the examination, on the condition that the modules in question are indeed presented on an anti-semester basis in the second semester by the relevant department, are not pre-requisites for the second semester modules and can be accommodated in the class and examination timetables.
- iii. Candidates who failed BChD I, please consult points (ii) and (iii) under the Repeating modules paragraph below.

### **Promotion to the next year of study**

A student must pass all the modules of the relevant year of study for promotion to the next year of study (see exceptions for promotion to the second and third years of study below).

### **Promotion to the second year of study**

A student must pass all the core modules of the first year of study for promotion to the second year of study. Students will be allowed to carry fundamental modules (AIM 111/AIM 121 and/or ELH 111/ELH 112 in the first year) over to the second year but must pass them during the second year of study in order to proceed to the third year of study.

### **Failed candidates**

A student, who has failed a year of study for the second time before completing BChD II, is excluded from the programme and will have to apply for readmission to the second year of study. Also consult Repeating modules (and thus the year of study) concerning students who fail some modules of a year (and therefore the year of study).

### **Promotion to the third year of study**

A student must pass all the core modules of the second year of study and any fundamental modules carried over from the first year of study for promotion to the third year of study. Students will be allowed to carry fundamental modules (AFR 111 and/or ZUL 119 in the second year) over to the third year of study but must pass them during the third year of study in order to proceed to the fourth year of study.

### **Promotion to the fourth year of study**

A student must pass all the modules of the third year of study and any fundamental modules carried over from the second year of study for promotion to the fourth year of study.

### **Promotion to the fifth year of study**

A student must pass all the core and fundamental modules of the preceding years of study for admission to the fifth year of study.

### **Academic exclusion from further study**

- i. A student following a BChD degree will only be allowed one opportunity to repeat a year of study.
- ii. A student who does not comply with the abovementioned requirement but nevertheless wishes to be admitted to the School, may request the Dean/Chairperson of the School in writing, to consider his or her application for readmission in accordance with the prescribed procedure.





- iii. If a student fails one or more first-year modules (and therefore is not admitted to the second year of study), such a student forfeits his or her selection and must apply again for selection with a view to admission to the first year of study.

## Pass with distinction

The degree is conferred with distinction on a student who has obtained at least 65% in all the examination modules of the final year of study, with an average of at least 75% (not rounded) for all the modules.



## Curriculum: Year 1

Minimum credits: 181

### Fundamental modules

#### Academic information management 111 (AIM 111)

**Module credits** 4.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Economic and Management Sciences  
Faculty of Humanities  
Faculty of Law  
Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences  
Faculty of Theology and Religion

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Information Science

**Period of presentation** Semester 1

#### Module content

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology.

#### Academic information management 121 (AIM 121)

**Module credits** 4.00

**NQF Level** 05

**Service modules** Faculty of Engineering, Built Environment and Information Technology  
Faculty of Education  
Faculty of Economic and Management Sciences  
Faculty of Humanities  
Faculty of Law  
Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences  
Faculty of Theology and Religion  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Informatics



**Period of presentation** Semester 2

### Module content

Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

## Academic English for Health Sciences 111 (ELH 111)

**Module credits** 6.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Unit for Academic Literacy

**Period of presentation** Semester 1

### Module content

Proficiency in academic English by interpreting and contextualising philosophical and sociological texts prescribed during the first semester; medical ethics; study skill improvement. *\*Presented to students in Health Sciences only.*

## Academic English for Health Sciences (MBChB and BChD) 112 (ELH 112)

**Module credits** 6.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Unit for Academic Literacy

**Period of presentation** Semester 2

### Module content

Proficiency in Academic English used in the basic medical sciences; analysis, synthesis and presentation of select texts prescribed in the second semester. *\*Presented to students in Health Sciences only.*

## Academic orientation 110 (UPO 110)

**Module credits** 0.00

**NQF Level** 00

**Language of tuition** Module is presented in English



**Department** Health Sciences Deans Office

**Period of presentation** Year

## Core modules

### Chemistry 151 (CMY 151)

**Module credits** 16.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences  
Faculty of Veterinary Science

**Prerequisites** A candidate must have Mathematics for at least 60% and 60% for Physical Sciences.

**Contact time** 1 practical per week, 4 lectures per week

**Language of tuition** Module is presented in English

**Department** Chemistry

**Period of presentation** Semester 1

#### Module content

Theory: Introduction to general chemistry: Measurement in chemistry, matter and energy, atomic theory and the periodic table, chemical compounds and chemical bonds; quantitative relationships in chemical reactions, states of matter and the kinetic theory; solutions and colloids, acids, bases and ionic compounds, chemical equilibria. Introduction to organic chemistry: Chemical bonding in organic compounds, nature, physical properties and nomenclature of simple organic molecules, isomerism, chemical properties of alkanes and cycloalkanes, alkenes, alcohols, aldehydes and ketones, carboxylic acids and esters, amines and amides, carbohydrates, proteins, and lipids.

Practicals.

### Introduction to the philosophy of medicine 155 (FIL 155)

**Module credits** 6.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences

**Prerequisites** No prerequisites.

**Contact time** 1 lecture per week

**Language of tuition** Module is presented in English

**Department** Philosophy

**Period of presentation** Semester 1



## Module content

This module consists of two components: first, a philosophy of science component which provides an introduction to scientific reasoning and philosophical debates on scientific method; and secondly, a philosophy of medicine component which focuses on the relation between causation and the concept of disease and on the nature of evidence-based medicine.

### Anatomy 188 (GNK 188)

<b>Module credits</b>	56.00
<b>NQF Level</b>	05
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	18 lectures per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Anatomy
<b>Period of presentation</b>	Semester 2

## Module content

Systemic anatomy and embryology:

An introduction to anatomical terminology, the musculoskeletal system, nervous system, surface anatomy, cardiovascular system, respiratory system, urogenital system, gastro-intestinal system, the endocrine system and human embryology.

Human osteology:

Introduction to osteology, bone function and classification, humerus, radius, ulna, femur, tibia, fibula, clavicle, scapula, ribs, sternum, vertebrae, pelvis, hand and foot bones, sesamoid bones, skull, mandible, joints.

Human histology:

General introduction to cells and tissue, terminology, the cell and cytoplasm, organelles and inclusions, surface and glandular epithelium, general connective tissue, specialised connective tissue, namely cartilage, bone, blood and haemopoietic tissue, muscle and nervous tissue.

### Integrated dentistry 180 (IDE 180)

<b>Module credits</b>	20.00
<b>NQF Level</b>	05
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 lecture per week, 1 other contact session per week for 2 weeks, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Dental Management Sciences
<b>Period of presentation</b>	Semester 2



## Module content

Introduction to clinical dentistry:

- Infection control training
- Occupational health and safety training
- Code of conduct, professionalism and ethical behaviour
- Academic skills training (library, goal-orientation, time management, etc)
- Basic dental assisting
- Basic tooth anatomy and terminology
- Dental terminology
- Psychomotor skills training (model casting, carving of teeth out of plaster, wax work)
- Introduction to the disciplines and specialities
- Third language training
- Clinic visits throughout the year
- Visits to a dental practice

## People and their environment 112 (MGW 112)

<b>Module credits</b>	6.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Natural and Agricultural Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	4 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Sociology
<b>Period of presentation</b>	Semester 1

## Module content

This module comprises basic psychology and sociology concepts relevant to Medicine, and to Dentistry, in the case of BChD students.

Basic psychiatric concepts are also taught.

## Molecular and cell biology 111 (MLB 111)

<b>Module credits</b>	16.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Engineering, Built Environment and Information Technology Faculty of Education Faculty of Health Sciences Faculty of Veterinary Science
<b>Prerequisites</b>	A candidate who has passed Mathematics with at least 60% in the Grade 12 examination
<b>Contact time</b>	1 practical/tutorial per week, 4 lectures per week



**Language of tuition** Module is presented in English

**Department** Biochemistry, Genetics and Microbiology

**Period of presentation** Semester 1

### Module content

Introduction to the molecular structure and function of the cell. Basic chemistry of the cell. Structure and composition of prokaryotic and eukaryotic cells. Ultrastructure and function of cellular organelles, membranes and the cytoskeleton. General principles of energy, enzymes and cell metabolism. Selected processes, e.g. glycolysis, respiration and/or photosynthesis. Introduction to molecular genetics: DNA structure and replication, transcription, translation. Cell growth and cell division.

## Medical terminology 180 (MTL 180)

**Module credits** 8.00

**NQF Level** 05

**Service modules** Faculty of Health Sciences  
Faculty of Natural and Agricultural Sciences  
Faculty of Veterinary Science

**Prerequisites** No prerequisites.

**Contact time** 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Ancient and Modern Languages and Cultures

**Period of presentation** Semester 1

### Module content

The acquisition of a basic medical orientated vocabulary compiled from Latin and Greek stem forms combined with prefixes and suffixes derived from those languages. The manner in which the meanings of medical terms can be determined by analysing the terms into their recognisable meaningful constituent parts, is taught and exercised. The functional use of medical terms in context as practical outcome of terminological application is continually attended to.

## Physics for biology students 131 (PHY 131)

**Module credits** 16.00

**NQF Level** 05

**Service modules** Faculty of Education  
Faculty of Health Sciences  
Faculty of Veterinary Science

**Prerequisites** A candidate must have passed Mathematics with at least 60% in the Grade 12 examination

**Contact time** 1 discussion class per week, 1 practical per week, 4 lectures per week

**Language of tuition** Module is presented in English



**Department** Physics

**Period of presentation** Semester 1

### Module content

Note: PHY 131 is aimed at students who will not continue with physics. PHY 131 cannot be used as a substitute for PHY 114.

Units, vectors, one dimensional kinematics, dynamics, work, equilibrium, sound, liquids, heat, thermodynamic processes, electric potential and capacitance, direct current and alternating current, optics, modern physics, radioactivity.

## Public oral health 170 (POH 170)

**Module credits** 5.00

**NQF Level** 05

**Prerequisites** No prerequisites.

**Contact time** 1 lecture per week, 1 practical per week

**Language of tuition** Module is presented in English

**Department** Community Dentistry

**Period of presentation** Semester 2

### Module content

- Principles of public oral health
- Determinants of health
- Definitions of health, disease and illness
- Public health approaches to prevention

## Sepedi for beginners 119 (SEP 119)

**Module credits** 12.00

**NQF Level** 06

**Prerequisites** No prerequisites.

**Contact time** 1 discussion class per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** African Languages

**Period of presentation** Semester 2

### Module content

\*For absolute beginners only.

\* Students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.

The acquisition of basic Sepedi communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific social situations.





## Curriculum: Year 2

Minimum credits: 202

### Fundamental modules

#### Basic conversational Afrikaans 111 (AFR 111)

<b>Module credits</b>	12.00
<b>NQF Level</b>	05
<b>Service modules</b>	Faculty of Health Sciences
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Afrikaans
<b>Period of presentation</b>	Semester 1

#### Module content

Basic Afrikaans grammar and pronunciation and a specific technical (oral health) vocabulary is studied and practised to enable students to converse with patients in the professional environment. In this practical module, students are required to memorise phrases and to practise conversation skills under close observation.

#### isiZulu for beginners 119 (ZUL 119)

<b>Module credits</b>	12.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	No prerequisites.
<b>Contact time</b>	1 discussion class per week, 2 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	African Languages
<b>Period of presentation</b>	Semester 2

#### Module content

\*For absolute beginners only

\* Students from the School of Healthcare Sciences, who already possess the language skills taught in this module, may write an exemption examination.

The acquisition of basic isiZulu communicative skills with emphasis on everyday expressions and suitable high frequency vocabulary, within specific situations.

### Core modules



## Physiology 280 (FSG 280)

<b>Module credits</b>	40.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	CMY 151, FIL 155, GNK 188, IDE 170, MGW 112, MLB 111, MTL 180, PHY 131, POH 170, SEP 110.
<b>Contact time</b>	1 practical per week, 6 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Physiology
<b>Period of presentation</b>	Year

### Module content

Building blocks and metabolism of molecules, muscle and neurophysiology, cerebrospinal fluid and the special senses. Body fluids; haematology; cardiovascular physiology and the lymphatic system. Structure, gas exchange and non-respiratory functions of the lungs; structure, excretory and non-urinary functions of the kidneys, acid-base balance, as well as the skin and body temperature control. Nutrition, digestion and metabolism; hormonal control of the body functions and the reproductive systems. Where appropriate, case studies will be discussed in order to demonstrate the practical application of the gained physiological knowledge to the clinical management of a dental patient. Practical work to complement the theory.

## Basic emergency care 286 (GNK 286)

<b>Module credits</b>	5.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	(does not apply to the BOH programme) CMY 151, FIL 155, MGW 112, MLB 111, PHY 131, MTL 180, GNK 120, BOK 121, GNK 127, GNK 128, AIM 111 and 121, ELH 111 and 112 2nd- year academic status.
<b>Contact time</b>	2 other contact sessions per week, 4 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Health Sciences Deans Office
<b>Period of presentation</b>	Semester 1 and/or 2

### Module content

This practical-orientated module will provide students with training in basic life support, automated external defibrillation, and first aid treatment to the suddenly ill or injured patient. The theoretical content will be offered in an interactive format where students are expected to master the content as self-directed learning. Practical skills will be demonstrated in the skills laboratory and students will get the opportunity to practice the skills under guidance and supervision.

## Anatomy 289 (GNK 289)

<b>Module credits</b>	40.00
<b>NQF Level</b>	06



**Prerequisites** GNK 286, GPS 280, FSG 270, MDB 270, POH 270, ODO 270, PRD 270, ZUL 110, AFR 111, IDE 270

**Contact time** 15 lectures per week

**Language of tuition** Module is presented in English

**Department** Anatomy

**Period of presentation** Semester 1

### Module content

Clinically applied regional approach to human anatomy. Detailed cadaveric dissection of the head and neck, brain and spinal cord, axilla, upper limb, thorax, back and abdomen. Particular emphasis will be given to the head and neck region. The perineum, pelvis and lower limb will not be dissected, but taught with the aid of prosected specimens.

## General microbiology 270 (GOM 270)

**Module credits** 23.00

**NQF Level** 06

**Prerequisites** No prerequisites.

**Language of tuition** Module is presented in English

**Department** Medical Microbiology

**Period of presentation** Year

### Module content

The course "Microbiology" will prepare the dental student with the necessary knowledge and the discussion capability regarding basic microbiology, virology and immunology of both the healthy and diseased patient so that the student will understand the normal functioning of the relevant systems of the human body and will have compassion for the needs of patients with deflections from the normal. The student will be able to integrate the knowledge gained with the holistic approach to patients in order to be able to approach the treatment of patients preventatively and comprehensively. The course will provide the dental student with a thorough basic knowledge of principles of infection in general microbiology and virology.

## Generic procedural skills 280 (GPS 280)

**Module credits** 2.00

**NQF Level** 06

**Prerequisites** CMY 151,GNK 127,GNK 128,MLB 111,PHY 131,GNK 120,BOK 121,MGW 112,FIL 155,MTL 180 Second academic year status.

**Contact time** 3 practicals per week

**Language of tuition** Module is presented in English

**Department** Health Sciences Deans Office

**Period of presentation** Semester 1 and Semester 2



## Integrated dentistry 280 (IDE 280)

<b>Module credits</b>	20.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	GNK 286, GNK 289, GPS 280, FSG 270, MDB 270, POH 270, ODO 270, PRD 270, ZUL 110, AFR 111
<b>Contact time</b>	1 lecture per week, 1 other contact session per week for 3 weeks, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Dental Management Sciences
<b>Period of presentation</b>	Year

### Module content

- Clinic visits and visits to a dental practice
- Patient administration training
- Psychomotor skills training (model casting, carving of teeth out of plaster, wax work, wire bending)
- Pre-clinical communication training – building up rapport with a patient and interviewing skills (commences in the second semester)
- Examination skills training (commences in the second semester)

## Oral biology 280 (MDB 280)

<b>Module credits</b>	24.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	PHY 131, MGW 112, MLB 111, MTL 180, CMY 151, FIL 155, GNK 188, IDE 170, POH 170, SEP 110/ELH 111,112, AIM 101 or (AIM111+121)
<b>Contact time</b>	2 lectures per week for 30 weeks, Two discussion classes per week over 4 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Oral and Maxillofacial Pathology
<b>Period of presentation</b>	Year

### Module content

This module is the study of the development, macroscopic and microscopic structure and function of tissue of the mouth and related structures with emphasis on the application in clinical dentistry. This module also includes the study of relevant molecular biology.

## Odontology 270 (ODO 270)

<b>Module credits</b>	6.00
<b>NQF Level</b>	06
<b>Prerequisites</b>	GNK 286, GNK 289, GPS 280, FSG 270, MDB 270, IDE 270, POH 270, PRD 270, ZUL 110, AFR 111



**Contact time** 1 clinical session per week, 1 clinical session per week for 28 weeks, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Odontology

**Period of presentation** Year

### Module content

Chair-side assisting:

This clinical training entails the chair-side assisting of senior dental students during the treatment of patients.

## Public oral health 280 (POH 280)

**Module credits** 15.00

**NQF Level** 06

**Prerequisites** GNK 286, GNK 289, GPS 280, FSG 270, MDB 270, IDE 270, ODO 270, PRD 270, ZUL 110, AFR 111

**Contact time** 1.5 lecture per week

**Language of tuition** Module is presented in English

**Department** Community Dentistry

**Period of presentation** Year

### Module content

- Orientation to health sciences research
- Ethical consideration in the conduct of health sciences research
- An overview of the research process
- Selecting or identifying research problems
- The literature review
- Refining and defining the research question, formulating a hypothesis and preparing a research proposal
- Quantitative research
- Non-traditional and qualitative research designs
- Sampling
- Data collection and Data quality
- Data analysis
- Research reports and report evaluation

## Prosthodontics 270 (PRD 270)

**Module credits** 3.00

**NQF Level** 06

**Prerequisites** 2nd-year status.

**Contact time** 1 practical per week

**Language of tuition** Module is presented in English



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**Department** Prosthodontics

**Period of presentation** Year

**Module content**

- Basic tooth morphology
- Introduction to dental laboratory procedures in Removable Prosthodontics



## Curriculum: Year 3

**Minimum credits: 198**

### Core modules

#### Anatomical pathology 380 (ANP 380)

<b>Module credits</b>	24.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	3rd-year status.
<b>Contact time</b>	4 lectures per week S1, 6 other contact sessions per week for 5 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Oral and Maxillofacial Pathology
<b>Period of presentation</b>	Year

#### Module content

##### General pathology

- Cell injury, death and adaptation
- Acute and chronic inflammation
- Repair: Cell regeneration, fibrosis and wound healing
- Hemodynamic disorders, thrombosis and shock
- Disorders of the immune system
- Neoplasia
- Environmental diseases
- General pathology of infectious diseases

##### Diseases of the following organ systems

- Blood vessels
- Heart
- Haemopoietic and lymphoid systems
- Respiratory tract
- Urinary tract
- Gastrointestinal tract
- Liver and biliary tract
- Pancreas
- Male genital system
- Female genital system and breast
- Endocrine system
- Musculoskeletal system
- Skin
- Nervous system

#### Pharmacology 370 (FAR 370)

<b>Module credits</b>	8.00
<b>NQF Level</b>	07



**Prerequisites** BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281

**Contact time** 1 discussion class per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Pharmacology

**Period of presentation** Year

### Module content

Introductory principles of clinical pharmacotherapy in view of applicable patient problems, receptors for medicines, principles of structure activity relationships, dynamic and kinetic principles to bring pharmacological principles and clinical therapy together in a problem-based curriculum.

## Generic procedural skills 370 (GPS 370)

**Module credits** 5.00

**NQF Level** 07

**Prerequisites** 3rd-year status.

**Contact time** 1 practical per week

**Language of tuition** Module is presented in English

**Department** School of Dentistry

**Period of presentation** Semester 1

### Module content

Procedures: skin, scrubbing and dressing for theatre.

Physical examinations: cardiovascular examination, respiratory examination.

## Odontology 380 (ODO 380)

**Module credits** 39.00

**NQF Level** 07

**Prerequisites** BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281

**Contact time** 2 lectures per week, 4 practical sessions per week for 35 weeks

**Language of tuition** Module is presented in English

**Department** Odontology

**Period of presentation** Year





## Module content

The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training. The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

### Oro-facial surgery 370 (OFC 370)

<b>Module credits</b>	12.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281
<b>Contact time</b>	1 practical per week, 3 lectures per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Maxillo Facial and Oral Surgery
<b>Period of presentation</b>	Year

## Module content

- Surgical anatomy: Applied surgical anatomy.
- Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
- Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
- Advanced oral surgery: Apaiectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthetic surgery (review).
- Basic maxillo-facial surgery: Traumatology, surgical pathology, neuralgias, temporo-mandibular joint derangements.
- Advanced maxillo-facial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

### Orthodontics 380 (ORD 380)

<b>Module credits</b>	14.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	BOK 280, (BoK 281 or (BOK 285, 287)), BOK 283, GNK 286, GNK 288, GPS 280, IKT 200, SMO 211, SMO 281
<b>Contact time</b>	1 lecture per week for 32 weeks, 1 practical per week (32 weeks), Once a week for 10 weeks
<b>Language of tuition</b>	Module is presented in English



**Department** Orthodontics

**Period of presentation** Year

### Module content

The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:

- a. Basic principles and therapeutic measures.
- b. Occlusion: development and morphology.
- c. Development and growth: cranium.
- d. Stainless steel: properties and uses.
- e. Orthodontic devices: requirements and types.
- f. Changes in tissue.
- g. Malocclusion: classification and aetiology.
- h. Examination, aids, diagnosis and planning.
- i. Bad habits.
- j. Preventive and interceptive orthodontics.
- k. Treatment: principles, problems with space, methods.
- l. The role of extraction.
- m. Retention.

### Periodontology 380 (PDL 380)

**Module credits** 9.00

**NQF Level** 07

**Prerequisites** BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281

**Contact time** 1 practical per week, 2 lectures per week

**Language of tuition** Module is presented in English

**Department** Periodontics and Oral Medicine

**Period of presentation** Year



## Module content

- i. The modules in the subject are offered in the third, fourth and fifth years of study.
- ii. The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
- iii. The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium. The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification. The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan. The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planning; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases. The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

## Public oral health 370 (POH 370)

<b>Module credits</b>	4.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	3rd-year status.
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Community Dentistry
<b>Period of presentation</b>	Year

### Module content

- Oral epidemiology
- Prevention and oral health promotion
- Health services (systems)

## Prosthodontics 380 (PRD 380)

<b>Module credits</b>	43.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	BOK 280,BOK 281,BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281
<b>Contact time</b>	2 discussion classes per week, 3 lectures per week, 3 practicals per week



**Language of tuition** Module is presented in English

**Department** Prosthodontics

**Period of presentation** Year

### Module content

Examination and evaluation of the denture patient, principles and taking of impressions, determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus.

## Diagnostic imaging 380 (RAD 380)

**Module credits** 14.00

**NQF Level** 07

**Prerequisites** BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281

**Contact time** 1 discussion class per week for 6 weeks, 1 lecture per week for 30 weeks, 2 practicals per week (10 week period)

**Language of tuition** Module is presented in English

**Department** Oral and Maxillofacial Pathology

**Period of presentation** Year

## Comprehensive patient management 370 (TBW 370)

**Module credits** 18.00

**NQF Level** 07

**Prerequisites** BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281

**Contact time** 1 lecture per week, 1 other contact session per week for 3 weeks, 1 practical per week

**Language of tuition** Module is presented in English

**Department** Dental Management Sciences

**Period of presentation** Year



## Module content

Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the “practice patient”. The portfolio contains the student’s year mark, which is determined on a 50:50 basis, with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.

Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and health care environment. Application of certain principles and skills in terms of:

- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the dentist.
- Career possibilities.
- Management of a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

## Applied medicine 380 (TGG 380)

<b>Module credits</b>	8.00
<b>NQF Level</b>	07
<b>Prerequisites</b>	BOK 280,(BOK 281 or (BOK 285,287)),BOK 283,GNK 286,GNK 288,GPS 280,IKT 200,SMO 211,SMO 281
<b>Contact time</b>	1 lecture per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Internal Medicine
<b>Period of presentation</b>	Year

## Module content

The purpose of this module is to enable the dentist to identify medical problems, which may have an effect on the dental treatment or may affect the patient’s general health. The dentist must be able to interpret the patient’s medical history, in order to modify the treatment plan accordingly to ensure a safe dental treatment and/or to refer the patient for medical or specialist care.



## Curriculum: Year 4

Minimum credits: 253

### Core modules

#### Maxillo-facial pathology 480 (MFP 480)

<b>Module credits</b>	31.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TGG 370,FAR 370,RAD 370,TBW 370,ODO 370,PDL 370
<b>Contact time</b>	2 discussion classes per week for 6 weeks, 2 lectures per week, 2 other contact sessions per week for 3 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Oral and Maxillofacial Pathology
<b>Period of presentation</b>	Year

#### Module content

The modules in this subject will empower the student with knowledge of the embryology, anatomy, physiology and pathology of the oral mucosa, the salivary glands, intra- and extraoral soft tissue and bone in order to diagnose and manage lesions, diseases and conditions of the oral mucosa, salivary glands, intra and extraoral soft tissue and bone.

#### Odontology 470 (ODO 470)

<b>Module credits</b>	63.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	MDB 370,TGG 370,FAR 370,RAD 370,TBW 370,ODO 370,PDL 370
<b>Contact time</b>	2 lectures per week, 8 clinical sessions per week for 35 week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Odontology
<b>Period of presentation</b>	Year

#### Module content

The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training . The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

#### Oro-facial surgery 470 (OFC 470)

<b>Module credits</b>	41.00
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<b>NQF Level</b>	08
<b>Prerequisites</b>	MDB 370, TGG 370, FAR 370, RAD 370, TBW 370, PDL 370, ODO 370
<b>Contact time</b>	1 discussion class per week, 1 lecture per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Maxillo Facial and Oral Surgery
<b>Period of presentation</b>	Year

### Module content

- (a) Surgical anatomy: Applied surgical anatomy.
- (b) Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
- (c) Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
- (d) Advanced oral surgery: Apaiectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthetic surgery (review).
- (e) Basic maxillo-facial surgery: Traumatology, surgical pathology, neuralgias, temporo-mandibular joint derangements.
- (f) Advanced maxillo-facial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

### Orthodontics 480 (ORD 480)

<b>Module credits</b>	17.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	4th-year status
<b>Contact time</b>	1 lecture per week for 38 weeks, 1 practical per week for 37 weeks, Once a week for 18 weeks, One discussion class per week for 15 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Orthodontics
<b>Period of presentation</b>	Year



## Module content

The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:

- a. Basic principles and therapeutic measures.
- b. Occlusion: development and morphology.
- c. Development and growth: cranium.
- d. Stainless steel: properties and uses.
- e. Orthodontic devices: requirements and types.
- f. Changes in tissue.
- g. Malocclusion: classification and aetiology.
- h. Examination, aids, diagnosis and planning.
- i. Bad habits.
- j. Preventive and interceptive orthodontics.
- k. Treatment: principles, problems with space, methods.
- l. The role of extraction.
- m. Retention.

## Periodontology 480 (PDL 480)

<b>Module credits</b>	12.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	GNK 388, MDB 370, TGG 370, FAR 370, RAD 370, TBW 370, ODO 370 and PDL 370
<b>Contact time</b>	1 discussion class per week, 1 lecture per week for 39 weeks, 1 per week for 20 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Periodontics and Oral Medicine
<b>Period of presentation</b>	Year





## Module content

- i. The modules in the subject are offered in the third, fourth and fifth years of study.
- ii. The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
- iii. The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium. The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification. The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan. The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planning; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases. The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

## Public oral health 470 (POH 470)

<b>Module credits</b>	6.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	4th-year status.
<b>Contact time</b>	1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Community Dentistry
<b>Period of presentation</b>	Semester 1 and Semester 2

### Module content

- Oral epidemiology
- Prevention and oral health promotion
- Health services (systems)
- Community engagement projects commence

## Prosthodontics 470 (PRD 470)

<b>Module credits</b>	26.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	MDB 370,TGG 370,FAR 370,RAD 370,TBW 370,ODO 370,PDL 370,GPS 370,ORD 370,OFC 370,PRD 370
<b>Contact time</b>	1 lecture per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English



**Department** Prosthodontics

**Period of presentation** Year

### Module content

Examination and evaluation of the denture patient, principles and taking of impressions, determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus.

## Diagnostic imaging 480 (RAD 480)

**Module credits** 21.00

**NQF Level** 08

**Prerequisites** MDB 370,TGG 370,FSG 370,FAR 370,GPS 370,TBW 370,ODO 370,PDL 370,ORD 370,OFC 370,RAD 370

**Contact time** 1 lecture per week for 30 weeks, 1 practical per week (28 week period), One discussion class per week for six weeks

**Language of tuition** Module is presented in English

**Department** Oral and Maxillofacial Pathology

**Period of presentation** Year

### Module content

Diagnostic imaging 370/470 is a two year course delivered during the 3rd and 4th years of the BChD programme. It deals with all aspects of radiographic imaging of the maxillofacial region appropriate to the Dentist. Diagnostic imaging 370 is delivered during BChD III as a promotion course. Diagnostic imaging 470 is an examination course delivered during BChD IV. The purpose of Diagnostic imaging 470 is:

- To formalise teaching and examination of Diagnostic Imaging 370/470.
- To certify students' ability to apply knowledge obtained in Diagnostic Imaging 370 to clinical and practical situations of Diagnostic Imaging.
- To certify that students act professionally during clinical situations of Diagnostic Imaging.

## Comprehensive patient management 480 (TBW 480)

**Module credits** 20.00

**NQF Level** 08

**Prerequisites** FAR 370,GPS 380,MDB 370,ODO 370,OFC 370,PDL 370,TBW 370

**Contact time** 1 discussion class per week, 1 lecture per week, 1 other contact session per week for 5 weeks, 1 practical per week, 1 seminar

**Language of tuition** Module is presented in English

**Department** Dental Management Sciences

**Period of presentation** Year



## Module content

Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the "practice patient". The portfolio contains the student’s year mark, which is determined on a 50:50 basis with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.

Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and health care environment. Application of certain principles and skills in terms of:

- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the dentist.
- Career possibilities.
- Management of a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

## Anaesthesiology 470 (TMZ 470)

<b>Module credits</b>	16.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	MDB 370,TGG 370,FAR 370,RAD 370,TBW 370,ODO 370,PDL 370
<b>Contact time</b>	1 discussion class per week, 1 lecture per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Maxillo Facial and Oral Surgery
<b>Period of presentation</b>	Year



## Curriculum: Final year

Minimum credits: 218

### Core modules

#### Maxillo-facial pathology 580 (MFP 580)

<b>Module credits</b>	33.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,OFC 470,TMZ 470
<b>Contact time</b>	2 discussion classes per week for 6 weeks, 2 lectures per week, 2 other contact sessions per week for 2 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Oral and Maxillofacial Pathology
<b>Period of presentation</b>	Year

#### Module content

The modules in this subject will empower the student with knowledge of the embryology, anatomy, physiology and pathology of the oral mucosa, the salivary glands, intra- and extraoral soft tissue and bone in order to diagnose and manage lesions, diseases and conditions of the oral mucosa, salivary glands, intra and extraoral soft tissue and bone.

#### Odontology 570 (ODO 570)

<b>Module credits</b>	52.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,OFC 470,TMZ 470
<b>Contact time</b>	2 lectures per week, 7 clinical sessions per week for 35 week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Odontology
<b>Period of presentation</b>	Year

#### Module content

The modules in the subject odontology form an integrated curriculum that is structured and presented by various lecturers from different departments of the school. The modules consist of theoretical, practical and clinical training. The theoretical training includes anatomy, embryology, histology, microbiology and pathology of the teeth and teeth structure, while the clinical training is focused on the preventive, curative, and minor rehabilitative treatment of teeth development and eruption malformations, dental caries, pulpal and peri-radicular pathology, unerupted and impacted teeth, and tooth wear as part of the ageing process.

#### Oro-facial surgery 570 (OFC 570)

<b>Module credits</b>	42.00
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<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,DFA 470,OFC 470 and TMZ 470
<b>Contact time</b>	1 discussion class per week, 1 lecture per week, 2 practicals per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Maxillo Facial and Oral Surgery
<b>Period of presentation</b>	Year

### Module content

- (a) Surgical anatomy: Applied surgical anatomy.
- (b) Examination, anaesthesia, distress: Examination of a surgical patient, stress control and sedation, local anaesthetics, local anaesthetic techniques, applied pharmacology and prescription (synoptic), emergency procedures.
- (c) Basic oral surgery: Sterilisation and disinfection, oral surgical armamentarium, exodontia and related complications, bleeding problems, antrum.
- (d) Advanced oral surgery: Apaiectomy, impactions, electro and cryosurgery, soft tissue infections and osteomyelitis, pre-prosthetic surgery (review).
- (e) Basic maxillo-facial surgery: Traumatology, surgical pathology, neuralgias, temporo-mandibular joint derangements.
- (f) Advanced maxillo-facial surgery: Micro surgery (review), orthognathic surgery, facial cleft deformities, cranio-facial surgery (review).

### Orthodontics 580 (ORD 580)

<b>Module credits</b>	17.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	5th-year status.
<b>Contact time</b>	1 per week for 18 weeks, 1 per week for 30 weeks, 1 practical per week for 30 weeks, One per week for 12 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Orthodontics
<b>Period of presentation</b>	Year



## Module content

The modules in this subject extend over the third, fourth and fifth years of study. Lectures, practical and clinical work, seminars and discussions on the following:

- i. Basic principles and therapeutic measures.
- ii. Occlusion: development and morphology.
- iii. Development and growth: cranium.
- iv. Stainless steel: properties and uses.
- v. Orthodontic devices: requirements and types.
- vi. Changes in tissue.
- vii. Malocclusion: classification and aetiology.
- viii. Examination, aids, diagnosis and planning.
- ix. Bad habits.
- x. Preventive and interceptive orthodontics.
- xi. Treatment: principles, problems with space, methods.
- xii. The role of extraction.
- xiii. Retention.

## Periodontology 570 (PDL 570)

<b>Module credits</b>	16.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,DFA 470,OFC 470,PTK 470,GAP 470,TMZ 470
<b>Contact time</b>	1 discussion class per week for 5 weeks, 1 lecture per week, 1 practical per week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Periodontics and Oral Medicine
<b>Period of presentation</b>	Year



## Module content

- (i) The modules in the subject are offered in the third, fourth and fifth years of study.
- (ii) The depth and weighting of the knowledge base and the clinical application and interpretation of the modules will be dependent on the year of study.
- (iii) The goal is to educate and train general dental practitioners who will be able to apply their expertise and knowledge in the prevention and treatment of periodontal diseases in both the public and private sectors within the scope of the dental practitioner. In order to achieve this, the student must know the embryology, normal anatomy, histology and functions of the periodontium. The student must understand the aetiology, pathogenesis, the risk and other factors associated with the various forms of periodontal diseases, and their classification. The student must be able to perform a comprehensive clinical examination and use the information so gained to arrive at a diagnosis and treatment plan. The student must become proficient in applying preventive control methods, to supply oral hygiene methods and applicable instructions to the patient; motivating the patient; scaling and root planning; be able to correctly evaluate the tissue response to these procedures; be able to differentiate clinically between the various forms of periodontal disease and be able to perform clinical procedures associated with the treatment of early and moderate stages of periodontal diseases. The student must understand the treatment possibilities associated with established and advanced periodontal diseases, including regenerative procedures and implant treatment, and when and to whom, such patients should be referred for specialist diagnosis and treatment, should this be necessary.

## Public oral health 570 (POH 570)

<b>Module credits</b>	5.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	Final year status.
<b>Contact time</b>	1 discussion class per week for 28 weeks, 4 practicals per week for 1 week
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Community Dentistry
<b>Period of presentation</b>	Year

### Module content

Community engagement projects continue.

## Prosthodontics 580 (PRD 580)

<b>Module credits</b>	26.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,OFC 470,PRD 470,TMZ 470
<b>Contact time</b>	1 discussion class per week, 1 lecture per week, 2 practical per week for 30 weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Prosthodontics
<b>Period of presentation</b>	Year



## Module content

Examination and evaluation of the denture patient, principles and taking of impressions, determination of vertical and horizontal jaw relations and facial bow recording. Aesthetics. Fitting and placing of the finished denture. Post treatment. Clinical aspects of manufacturing of complete and partial dentures, obturators and special apparatus. Pre-clinical crown and bridge techniques course. Examination and evaluation of patient's requiring crown and bridge treatment. Principles of tooth preparation and impression-making. Shade selection. Finishing and cementation of fixed restorations. Clinical aspects of manufacturing of single crowns and fixed prostheses. An introduction to lasers and implants.

## Diagnostic imaging 580 (RAD 580)

<b>Module credits</b>	7.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	TBW 470,ODO 470,MFP 470,PDL 470,ORD 470,OFC 470,TMZ 470,RAD 470
<b>Contact time</b>	1 practical per week for 14 weeks, One discussion class per week for three weeks
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Oral and Maxillofacial Pathology
<b>Period of presentation</b>	Semester 1

## Module content

Diagnostic imaging 580 is an attendance course presented during the first semester of BChD V. The purpose of Acourse is:

- To formalise teaching and formative assessment of final year students' clinical and diagnostic skills in Diagnostic imaging.
- To develop students' confidence in clinical aspects of Diagnostic imaging.
- To ensure radiographic service rendering in Diagnostic imaging by senior (5th year) students while 4th year students are in training.

## Comprehensive patient management 580 (TBW 580)

<b>Module credits</b>	20.00
<b>NQF Level</b>	08
<b>Prerequisites</b>	MFP 470,ODO 470,OFC 470,PDL 470,TBW 470,TMZ 470
<b>Contact time</b>	1 discussion class per week, 1 lecture per week, 1 other contact session per week for 6 weeks, 1 seminar
<b>Language of tuition</b>	Module is presented in English
<b>Department</b>	Dental Management Sciences
<b>Period of presentation</b>	Year





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## Module content

Holistic evaluation of a patient, the clinical hypothetic-deductive reasoning processes, diagnosis, prognosis and treatment planning. Under the guidance of a tutor, and by utilising a special “practice patient” file, the students start treating a “practice patient” comprehensively. The student compiles a portfolio, on a continuous basis, on the clinical and administrative procedures concerning the “practice patient”. The portfolio contains the student’s year mark, which is determined on a 50:50 basis with the examination mark as the final pass mark. The examination mark is determined when the student presents the practice patient case to an audience and a panel of adjudicators.

Application of business management principles during patient management. Preparing the student for a meaningful and successful career in an increasingly complex business and health care environment. Application of certain principles and skills in terms of:

- Psychology in the dentistry practice.
- Political parameters in dentistry.
- Sociology and dentistry.
- Ethics for the dentist.
- Career possibilities.
- Managing a practice.

Additional to this, students should understand the economic, cultural, legal and regulatory environment to establish and optimise patient management.

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## General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

## Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

## University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to



contact their faculties if they have any questions.