

# 2011 PROSPECTUS

**PART 10**

**POSTGRADUATE STUDIES**

ISSN 0258-7343

TSHWANE UNIVERSITY OF TECHNOLOGY

## 6. FACULTY OF SCIENCE

### 6.1 ADELAIDE TAMBO SCHOOL OF NURSING SCIENCE

#### 6.1.1 MAGISTER TECHNOLOGIAE: NURSING

Qualification code: MTNG98

##### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Nursing or an NQF level 7 bachelor's or honours degree in Nursing from a South African university or nursing college, recognised by the South African Nursing Council as the minimum requirement to register as a Professional Nurse.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
NUR510T	Dissertation: Nursing	(1,000)
NUR510R	Dissertation: Nursing (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.1.2 DOCTOR TECHNOLOGIAE: NURSING

Qualification code: DTNG98

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Nursing or a NQF level 8 master's degree in Nursing from a South African university or nursing college.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
NUR700T	Thesis: Nursing	(2,000)
NUR700R	Thesis: Nursing (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.2 DEPARTMENT OF ANIMAL SCIENCES

### 6.2.1 MAGISTER TECHNOLOGIAE: AGRICULTURE

Qualification code: MTAP98

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Agriculture: Animal Production or a NQF level 7 bachelor's or honours degree in Agriculture with Animal Production as major subject from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
DPS500T	Dissertation: Agriculture: Animal Production	(1,000)
DPS500R	Dissertation: Agriculture: Animal Production (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.2.2 DOCTOR TECHNOLOGIAE: AGRICULTURE

Qualification code: DTAP98

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Agriculture or an NQF level 8 master's degree in Agriculture from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
DPS700T	Thesis: Agriculture: Animal Production	(2,000)
DPS700R	Thesis: Agriculture: Animal Production (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

### 6.3 DEPARTMENT OF BIOMEDICAL SCIENCES

#### 6.3.1 MAGISTER TECHNOLOGIAE: BIOMEDICAL TECHNOLOGY Qualification code: MTBM96

##### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Biomedical Technology or an NQF level 7 bachelor's or honours degree in Biomedical Sciences/Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
BIT500T	Dissertation: Biomedical Technology	(1,000)
BIT500R	Dissertation: Biomedical Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.3.2 DOCTOR TECHNOLOGIAE: BIOMEDICAL TECHNOLOGY

Qualification code: DTBM96

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Biomedical Technology or an NQF level 8 master's degree in Biomedical Sciences/Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
BIT700T	Thesis: Biomedical Technology	(2,000)
BIT700R	Thesis: Biomedical Technology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

### 6.3.3 MAGISTER TECHNOLOGIAE: CLINICAL TECHNOLOGY

Qualification code: MTCT98

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Clinical Technology or an NQF level 7 bachelor's or honours degree in Clinical Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CCY500T	Dissertation: Clinical Technology	(1,000)
CCY500R	Dissertation: Clinical Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.3.4 DOCTOR TECHNOLOGIAE: CLINICAL TECHNOLOGY

Qualification code: DTCT98

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Clinical Technology or an NQF level 8 master's degree in Clinical Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CCY700T	Thesis: Clinical Technology	(2,000)
CCY700R	Thesis: Clinical Technology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

### 6.3.5 MAGISTER TECHNOLOGIAE: RADIOGRAPHY

Qualification code: MTRG97

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Radiography: Diagnostic or an NQF level 7 bachelor's or honours degree in Radiography from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
RGD500T	Dissertation: Radiography	(1,000)
RGD500R	Dissertation: Radiography (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.3.6 DOCTOR TECHNOLOGIAE: RADIOGRAPHY

Qualification code: DTRG97

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Radiography or an NQF level 8 master's degree in Radiography from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
RGD700T	Thesis: Radiography	(2,000)
RGD700R	Thesis: Radiography (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

### 6.3.7 MAGISTER TECHNOLOGIAE: VETERINARY TECHNOLOGY

Qualification code: MTVE96

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Veterinary Technology or an NQF level 7 bachelor's or honours degree in Veterinary Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
VTY500T	Dissertation: Veterinary Technology	(1,000)
VTY500R	Dissertation: Veterinary Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.3.8 DOCTOR TECHNOLOGIAE: VETERINARY TECHNOLOGY

Qualification code: DTVE96

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Veterinary Technology or an NQF level 8 master's degree in Veterinary Technology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
VTY700T	Thesis: Veterinary Technology	(2,000)
VTY700R	Thesis: Veterinary Technology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

## 6.4 DEPARTMENT OF BIOTECHNOLOGY AND FOOD TECHNOLOGY

### 6.4.1 MAGISTER TECHNOLOGIAE: BIOTECHNOLOGY

Qualification code: MTBT96

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Biotechnology or an NQF level 7 bachelor's or honours degree in Biotechnology or Microbiology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
BTY500T	Dissertation: Biotechnology	(1,000)
BTY500R	Dissertation: Biotechnology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **1,000**

## 6.4.2 DOCTOR TECHNOLOGIAE: BIOTECHNOLOGY

Qualification code: DTBT96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Biotechnology or an NQF level 8 master's degree in Biotechnology or Microbiology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
BTY700T	Thesis: Biotechnology	(2,000)
BTY700R	Thesis: Biotechnology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

### 6.4.3 MAGISTER TECHNOLOGIAE: FOOD TECHNOLOGY

Qualification code: MFT96

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Food Technology or an NQF level 7 bachelor's or honours degree in Food Technology or Food Science from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualification from the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
FTN500T	Dissertation: Food Technology	(1,000)
FTN500R	Dissertation: Food Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

#### 6.4.4 DOCTOR TECHNOLOGIAE: FOOD TECHNOLOGY

Qualification code: DTFT96

##### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Food Technology or an NQF level 8 master's degree in Food Technology or Food Science from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
FTN700T	Thesis: Food Technology	(2,000)
FTN700R	Thesis: Food Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.5 DEPARTMENT OF CHEMISTRY

### 6.5.1 MAGISTER TECHNOLOGIAE: CHEMISTRY Qualification code: MTCH95

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Chemistry or an NQF level 7 bachelor's or honours degree in Chemistry from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CHE500T	Dissertation: Chemistry	(1,000)
CHE500R	Dissertation: Chemistry (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **1,000**

## 6.5.2 DOCTOR TECHNOLOGIAE: CHEMISTRY

Qualification code: DTCH96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Chemistry or an NQF level 8 master's degree in Chemistry from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CHE700T	Thesis: Chemistry	(2,000)
CHE700R	Thesis: Chemistry (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

<b>6.5.3 MAGISTER TECHNOLOGIAE: CERAMICS TECHNOLOGY</b> <b>Qualification code: MTCK98</b>
--

### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Ceramics Technology or an equivalent qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised.
- Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.
- In addition, he or she should successfully complete Research Methodology in the first year of study if it was not taken for a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a protocol is provisional and will be made official only when the protocol is approved by the Higher Degrees Committee. These procedures will be fully explained to each prospective student at his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CST500T	Dissertation: Ceramics Technology	(1,000)
CST500R	Dissertation: Ceramics Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.5.4 DOCTOR TECHNOLOGIAE: CERAMICS TECHNOLOGY

Qualification code: DTCK98

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Ceramics Technology or an equivalent qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised.
- Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a protocol is provisional and will be made official only when the protocol is approved by the Higher Degrees Committee. These procedures will be fully explained to each prospective student at his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
CST700T	Thesis: Ceramics Technology	(2,000)
CST700R	Thesis: Ceramics Technology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

## 6.5.5 MAGISTER TECHNOLOGIAE: EXPLOSIVES TECHNOLOGY

Qualification code: MTEX01

### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Explosives Technology or an equivalent qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised.
- Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.

In addition, he or she should successfully complete Research Methodology in the first year of study if it was not taken for a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a protocol is provisional and will be made official only when the protocol is approved by the Higher Degrees Committee. These procedures will be fully explained to each prospective student at his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EXL510T	Dissertation: Explosives Technology	(1,000)
EXL510R	Dissertation: Explosives Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.5.6 DOCTOR TECHNOLOGIAE: EXPLOSIVES TECHNOLOGY

Qualification code: DTEX01

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Explosives Technology or an equivalent qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised.  
  
Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a protocol is provisional and will be made official only when the protocol is approved by the Higher Degrees Committee. These procedures will be fully explained to each prospective student at his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EXL720T	Thesis: Explosives Technology	(2,000)
EXL720R	Thesis: Explosives Technology (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

## 6.6 DEPARTMENT OF CROP SCIENCES

### 6.6.1 MAGISTER TECHNOLOGIAE: AGRICULTURE Qualification code: MTAL98

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Agriculture or an NQF level 7 bachelor's or honours degree in Agriculture from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, the prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
PPC500T	Dissertation: Agriculture: Crop Production	(1,000)
PPC500R	Dissertation: Agriculture: Crop Production (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.6.2 DOCTOR TECHNOLOGIAE: AGRICULTURE

Qualification code: DTAL98

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Agriculture or an NQF level 8 master's degree in Agriculture obtained from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
PPC700T	Thesis: Agriculture: Crop Production	(2,000)
PPC700R	Thesis: Agriculture: Crop Production (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.7 DEPARTMENT OF ENVIRONMENTAL HEALTH

### 6.7.1 MAGISTER TECHNOLOGIAE: ENVIRONMENTAL HEALTH Qualification code: MTEH95

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Environmental Health or an NQF level 7 bachelor's or honours degree in Environmental or Public Health from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, the prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EHT500T	Dissertation: Environmental Health	(1,000)
EHT500R	Dissertation: Environmental Health (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.7.2 DOCTOR TECHNOLOGIAE: ENVIRONMENTAL HEALTH

Qualification code: DTEH96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Environmental Health or an NQF level 8 master's degree in Environmental or Public Health from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EHT700T	Thesis: Environmental Health	(2,000)
EHT700R	Thesis: Environmental Health (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.8 DEPARTMENT OF ENVIRONMENTAL, WATER AND EARTH SCIENCES

### 6.8.1 MAGISTER TECHNOLOGIAE: ENVIRONMENTAL MANAGEMENT (Structured) Qualification code: MTEVS0

#### REMARKS

**Please note:** A moratorium was placed on new intakes as from 2008 until further notice.

- a. Admission requirement(s): Any relevant four-year tertiary qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised. Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.

In addition, he or she should successfully complete Research Methodology in the first year of study if it was not taken for a previous qualification.

**Please note:** This qualification is recommended for students with a relevant four-year tertiary qualification, other than the Baccalaureus Technologiae: Environmental Management or the Baccalaureus Technologiae: Environmental Sciences.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. These procedures will be fully explained to each prospective student at his or her personal interview.
- c. Recommended subjects: It is highly recommended that the student should have passed relevant environmental subjects during undergraduate studies and/or completed an environmental-related short learning programme beforehand.
- d. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

- e. Presentation and campus: Arcadia Campus (block-based classes).
- f. Structure: This programme consists of subjects offered on a block basis and a research project in the form of a mini-dissertation (research report). In order to obtain a structured magister technologiae, the student has to pass all the relevant subjects and the mini-dissertation (research report) has to be accepted. The student has to present a colloquium before submitting the dissertation.
- g. Subject credits: Subject credits are shown in brackets after each subject.

#### YEAR SUBJECTS

CODE	SUBJECT	CREDIT
ELE500T	Environmental Legislation V	(0,125)
EMG500T	Environmental Management V	(0,125)
EMG501T	Research Report: Environmental Management V	(0,500)
EMG501R	Research Report: Environmental Management V (re-registration)	(0,000)
<b>plus two of the following subjects:</b>		
ECC500T	Environmental Accounting V	(0,125)
ENC500T	Environmental Chemistry V	(0,125)
ERA500T	Environmental Risk Assessment V	(0,125)
GEH500T	Geohydrology V	(0,125)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.8.2 MAGISTER TECHNOLOGIAE: ENVIRONMENTAL MANAGEMENT

Qualification code: MTEV99

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Environmental Sciences or Environmental Management or an NQF level 7 bachelor's or honours degree in Environmental Sciences, Environmental Management, Chemistry, Biotechnology, Ecology, Botany or Zoology from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, the prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EMG510T	Dissertation: Environmental Management	(1,000)
EMG510R	Dissertation: Environmental Management (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.8.3 DOCTOR TECHNOLOGIAE: ENVIRONMENTAL MANAGEMENT

Qualification code: DTEV99

#### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Environmental Sciences or Environmental Management or an NQF level 8 master's degree in Environmental Sciences, Environmental Management, Chemistry, Biotechnology, Ecology, Botany or Zoology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
EMG700T	Thesis: Environmental Management	(2,000)
EMG700R	Thesis: Environmental Management (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

#### 6.8.4 MAGISTER TECHNOLOGIAE: GEOLOGY

Qualification code: MTGE96

##### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Geology or an NQF level 7 bachelor's or honours degree in Geology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
GEO500T	Dissertation: Geology	(1,000)
GEO500R	Dissertation: Geology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.8.5 DOCTOR TECHNOLOGIAE: GEOLOGY

Qualification code: DTGE96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Geology or an NQF level 8 master's degree in Geology from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
GEO700T	Thesis: Geology	(2,000)
GEO700R	Thesis: Geology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

### 6.8.6 MAGISTER TECHNOLOGIAE: WATER CARE

Qualification code: MTWC99

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Water Care, Chemistry, Biotechnology or Chemical Engineering or an NQF level 7 bachelor's or honours degree in Water Utilisation/Sciences, Chemistry, Microbiology, Biotechnology, Biochemistry or Chemical Engineering from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
WCT500T	Dissertation: Water Care	(1,000)
WCT500R	Dissertation: Water Care (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.8.7 DOCTOR TECHNOLOGIAE: WATER CARE

Qualification code: DTWC99

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Water Care, Chemistry, Biotechnology or Chemical Engineering or an NQF level 8 Master's degree in Water Utilisation, Chemistry, Microbiology, Biotechnology, Biochemistry or Chemical Engineering from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
WCT700T	Thesis: Water Care	(2,000)
WCT700R	Thesis: Water Care (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.8.8 SUBJECT INFORMATION

Syllabus content subject to change to accommodate industry changes.

**SUBJECT NAME:** ENVIRONMENTAL ACCOUNTING V  
**SUBJECT CODE:** ECC500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Accounting theories. Cost-benefit analysis. Application in terms of life cycles.

**SUBJECT NAME:** ENVIRONMENTAL CHEMISTRY V  
**SUBJECT CODE:** ENC500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Environmental engineering. Soil chemistry. Advanced atmospheric and water chemistry. Advanced hazardous waste and legislation.

**SUBJECT NAME:** ENVIRONMENTAL LEGISLATION V  
**SUBJECT CODE:** ELE500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Application of environmental legislation. Advanced environmental impact study. Environmental management programmes and applied case studies.

**SUBJECT NAME:** ENVIRONMENTAL MANAGEMENT V  
**SUBJECT CODE:** EMG500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Applied environmental management concepts and applications.

**SUBJECT NAME:** ENVIRONMENTAL RISK ASSESSMENT V  
**SUBJECT CODE:** ERA500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Assessment of risk, hazard identification, risk characterisation. Management of risk, consideration of management option, risk communication, control decision, monitoring.

**SUBJECT NAME:** GEOHYDROLOGY V  
**SUBJECT CODE:** GEH500T  
**EVALUATION METHOD:** 1 X 4-HOUR PAPER  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**  
 Advanced hydrochemistry, analysis of the appearance and movement of groundwater. Seminars and self-study.

## 6.9 DEPARTMENT OF HORTICULTURE

### 6.9.1 MAGISTER TECHNOLOGIAE: HORTICULTURE

Qualification code: MTHO97

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Horticulture, Landscape Technology or Turfgrass Management or an NQF level 7 bachelor's or honours degree in Horticulture or Botany from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

- d. Presentation and campus: Pretoria Campus (research).

- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
HOR500T	Dissertation: Horticulture	(1,000)
HOR500R	Dissertation: Horticulture (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.9.2 DOCTOR TECHNOLOGIAE: HORTICULTURE

Qualification code: DTH097

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Horticulture or an NQF level 8 master's degree in Horticulture or Botany from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been

submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
HOR700T	Thesis: Horticulture	(2,000)
HOR700R	Thesis: Horticulture (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.10 DEPARTMENT OF MATHEMATICS AND STATISTICS

### 6.10.1 MAGISTER TECHNOLOGIAE: QUALITY

Qualification code: MTQU99

#### REMARKS

a. Admission requirement(s): A Baccalaureus Technologiae: Quality or an equivalent qualification. Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

d. Presentation and campus: Arcadia Campus (research).

e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree,

has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
QAS510T	Dissertation: Quality	(1,000)
QAS510R	Dissertation: Quality (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.10.2 DOCTOR TECHNOLOGIAE: QUALITY

Qualification code: DTQU99

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Quality or an equivalent qualification.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
QAS700T	Thesis: Quality	(2,000)
QAS700R	Thesis: Quality (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

### 6.10.3 MAGISTER TECHNOLOGIAE: MATHEMATICAL TECHNOLOGY (Structured) Qualification code: MTMNST

#### REMARKS

- a. Admission requirement(s): Any NQF level 7 bachelor's degree with Mathematics as subject at level IV from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Recommended subjects: It is highly recommended that the student should have passed relevant mathematical subjects during undergraduate studies and/or completed a mathematical-related short learning programme beforehand.
- d. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- e. Presentation and campus: Arcadia Campus (block-based classes as arranged by the department).
- f. Structure: This programme consists of subjects offered on a block basis and a research project in the form of a mini-dissertation (research report). In order to obtain a structured magister technologiae, the student has to pass all the relevant

subjects and the mini-dissertation (research report) has to be accepted. The student has to present a colloquium before submitting the dissertation.

**Please note:** Before the research report will be accepted for assessment, a draft scientific paper, based on the research and approved by the supervisor, has to be ready for submission to a peer-reviewed journal (preferably accredited). Research findings should have been presented at a regional symposium or conference.

g. Subject credits:

Subject credits are shown in brackets after each subject.

**FIRST YEAR**

CODE	SUBJECT	CREDIT	PREREQUISITE SUBJECT(S)
------	---------	--------	-------------------------

**Two of the following subjects:**

NAS500T	Numerical Analysis V	(0,040)	
NLA500T	Numerical Linear Algebra V	(0,040)	
ONL500T	Ordinary Nonlinear Differential Equations V	(0,040)	
PDQ500T	Partial Differential Equations V	(0,040)	

**Plus:**

**LABORATORY**

MTP50AT	Mathematical Technology: Laboratory Project (A) V	(0,130)	
---------	--	---------	--

TOTAL CREDITS FOR THE FIRST YEAR: **0,210**

**SECOND YEAR**

**Two of the following subjects (excluding those taken in the first year):**

NAS500T	Numerical Analysis V	(0,040)	
NLA500T	Numerical Linear Algebra V	(0,040)	
ONL500T	Ordinary Nonlinear Differential Equations V	(0,040)	
PDQ500T	Partial Differential Equations V	(0,040)	

**Plus:**

**LABORATORY**

MTP50BT	Mathematical Technology: Laboratory Project (B) V	(0,130)	
---------	--	---------	--

TOTAL CREDITS FOR THE SECOND YEAR: **0,210**

**THIRD YEAR**

CQM500T	Colloquium V	(0,040)	Numerical Analysis V Numerical Linear Algebra V Ordinary Nonlinear Differential Equations V Partial Differential Equations V
ILM500T	Industrial Mathematics V	(0,040)	

## RESEARCH

MAY501T	Research Report: Mathematical Technology V	(0,500)	Mathematical Technology: Laboratory Project (A) V Mathematical Technology: Laboratory Project (B) V Numerical Analysis V Numerical Linear Algebra V Ordinary Nonlinear Differential Equations V Partial Differential Equations V
MAY501R	Research Report: Mathematical Technology V (re-registration)	(0,000)	
TOTAL CREDITS FOR THE THIRD YEAR:		<b>0,580</b>	
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>	

### 6.10.4 MAGISTER TECHNOLOGIAE: MATHEMATICAL TECHNOLOGY

Qualification code: **MTMN00**

#### REMARKS

- a. Admission requirement(s): Any NQF level 7 bachelor's or honours degree in Mathematical Science from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least

one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
MAY500T	Dissertation: Mathematical Technology	(1,000)
MAY500R	Dissertation: Mathematical Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.10.5 DOCTOR TECHNOLOGIAE: MATHEMATICAL TECHNOLOGY

Qualification code: DTMN00

#### REMARKS

a. Admission requirement(s): A Magister Technologiae: Mathematical Technology or an NQF level 8 master's degree in Mathematical Sciences from a South African university or a Master of Science degree from the University of Southern Mississippi.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

d. Presentation and campus: Arcadia Campus (research).

e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the

article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.

f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
MAY700T	Thesis: Mathematical Technology	(2,000)
MAY700R	Thesis: Mathematical Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

## 6.10.6 SUBJECT INFORMATION

Syllabus content subject to change to accommodate industry changes.

**SUBJECT NAME:** COLLOQUIUM V  
**SUBJECT CODE:** CQM500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

Students take turns to present lectures on the theory and applications of real analyses with the aid of algebraic manipulators.

**SUBJECT NAME:** INDUSTRIAL MATHEMATICS V  
**SUBJECT CODE:** ILM500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

The contents depend on the availability of instructors and demand from regional industry (such as wavelets, futures and derivatives, applied graph theory or calculus of variations, etc).

**SUBJECT NAME:** MATHEMATICAL TECHNOLOGY: LABORATORY  
**SUBJECT CODE:** PROJECT (A) V  
**SUBJECT CODE:** MTP50AT  
**EVALUATION METHOD:** PROJECT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

This practical subject must be undertaken simultaneously with any two of the theoretical subjects stated above. Experiments employing both numeric and symbolic computation and using software such as Derive, MATLAB, Mathematica, Scientific Workplace, etc. are carried out, which demonstrate investigations of a deeper nature than would be possible in either of the two subjects. A project report is to be submitted for examination.

**SUBJECT NAME:** MATHEMATICAL TECHNOLOGY: LABORATORY  
**SUBJECT CODE:** PROJECT (B) V  
**SUBJECT CODE:** MTP50BT  
**EVALUATION METHOD:** PROJECT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

This practical subject is to be taken simultaneously with any two of the theoretical subjects not covered in Laboratory Project (A). Experiments employing both numeric and symbolic computation and using software, such as Derive, MATLAB, Mathematica, Scientific Workplace, etc., are carried out, which demonstrate investigations of a deeper nature than would be possible in either of the two subjects. A project report of a deeper nature than that of "Mathematical Technology: Laboratory Project (A) V" is to be submitted for examination.

**SUBJECT NAME:** NUMERICAL ANALYSIS V  
**SUBJECT CODE:** NAS500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Interpolation polynomials, numerical differentiation and integration, Runge-Kutta type methods, error analysis.

**SUBJECT NAME:** NUMERICAL LINEAR ALGEBRA V  
**SUBJECT CODE:** NLA500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Methods of solving systems of not necessarily linear equations, error analysis, difference equations and finite element methods.

**SUBJECT NAME:** ORDINARY NONLINEAR DIFFERENTIAL EQUATIONS V  
**SUBJECT CODE:** ONL500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Not necessarily linear ordinary differential equations are studied.

**SUBJECT NAME:** PARTIAL DIFFERENTIAL EQUATIONS V  
**SUBJECT CODE:** PDQ500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Dirichlet, Neumann, mixed boundary value problems and Sturm-Liouville theory.

**SUBJECT NAME:** RESEARCH REPORT: MATHEMATICAL TECHNOLOGY V  
**SUBJECT CODE:** MAY501T  
**EVALUATION METHOD:** RESEARCH  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

This could, for example, cover work extending results from the respective laboratory projects or it could be a completely new project incorporating the use of available technology, such as Derive, MATLAB, Mathematica and Scientific Workplace. The project must demonstrate the student's ability to produce publishable research articles and/or artefacts in mathematical technology. It may be undertaken only on successful completion of four of the six theoretical subjects and the two laboratory projects listed above.

## 6.11 DEPARTMENT OF NATURE CONSERVATION

### 6.11.1 MAGISTER TECHNOLOGIAE: ECOTOURISM MANAGEMENT

Qualification code: MTES01

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Ecotourism Management or an NQF level 7 bachelor's or honours degree in Ecotourism Management from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess

these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

b. Selection criteria:

Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration:

A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

d. Presentation and campus:

Pretoria Campus (research).

e. Structure:

This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits:

Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
ETM510T	Dissertation: Ecotourism	(1,000)
ETM510R	Dissertation: Ecotourism (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **1,000**

### 6.11.2 MAGISTER TECHNOLOGIAE: GAME RANCH MANAGEMENT

Qualification code: MTGR01

#### REMARKS

a. Admission requirement(s):

A Baccalaureus Technologiae: Game Ranch Management or an NQF level 7 bachelor's or honours degree in Game Ranch Management from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess

these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

b. Selection criteria:

Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration:

A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

d. Presentation and campus:

Pretoria Campus (research).

e. Structure:

This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits:

Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
GRM500T	Dissertation: Game Ranch Management	(1,000)
GRM500R	Dissertation: Game Ranch Management (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.11.3 DOCTOR TECHNOLOGIAE: GAME RANCH MANAGEMENT

Qualification code: DTGR01

#### REMARKS

a. Admission requirement(s):

A Magister Technologiae: Game Ranch Management or an NQF level 8 master's degree in Game Ranch Management, obtained from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance (± six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications

Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
GRM700T	Thesis: Game Ranch Management	(2,000)
GRM700R	Thesis: Game Ranch Management (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>

#### 6.11.4 MAGISTER TECHNOLOGIAE: NATURE CONSERVATION

Qualification code: MTNA95

##### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Nature Conservation or an NQF level 7 bachelor's or honours degree in Nature Conservation from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance (± six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence

for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

b. Selection criteria:

Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration:

A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

d. Presentation and campus: Pretoria Campus (research).

e. Structure:

This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits:

Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
NCV500T	Dissertation: Nature Conservation	(1,000)
NCV500R	Dissertation: Nature Conservation (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.11.5 DOCTOR TECHNOLOGIAE: NATURE CONSERVATION

Qualification code: DTNA96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Nature Conservation or an NQF level 8 master's degree in Nature Conservation, obtained from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence

for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
NCV700T	Thesis: Nature Conservation	(2,000)
NCV700R	Thesis: Nature Conservation (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

## 6.12 DEPARTMENT OF PHARMACEUTICAL SCIENCES

### 6.12.1 MAGISTER TECHNOLOGIAE: PHARMACEUTICAL SCIENCES (Structured) Qualification code: MTPLS0

#### REMARKS

**Please note:** A moratorium was placed on new intakes as from 2008 until further notice.

- a. Admission requirement(s): Any relevant four-year tertiary qualification. A student has to apply in advance for status to be granted or an equivalent qualification to be recognised. Depending on the nature of such equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. These procedures will be fully

explained to each prospective student at his or her personal interview.

It is highly recommended that the student should have passed relevant pharmaceutical subjects during undergraduate studies and/or completed a pharmaceutical-related short learning programme beforehand.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (block-based classes).
- e. Structure: This programme consists of subjects offered on a block basis and a research project in the form of a mini-dissertation (research report). In order to obtain a structured magister technologiae, the student has to pass all the relevant subjects and the mini-dissertation (research report) has to be accepted. The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

#### YEAR SUBJECTS

Subjects are offered as determined by the Department.

CODE	SUBJECT	CREDIT
PHR510T	Research Report: Pharmaceutical Sciences V	(0,500)
PHR510R	Research Report: Pharmaceutical Sciences V (re-registration)	(0,000)
RMD500C	Research Methodology	(0,101)

#### plus three of the following subjects:

CRH500T	Clinical Research	(0,133)
CYH500T	Community Pharmacy	(0,133)
MGE500T	Medicine Governance	(0,133)
PHN500T	Pharmaco-Economics	(0,133)
PRU500T	Pharmaceutical Production	(0,133)

TOTAL CREDITS FOR THE QUALIFICATION: **1,000**

### 6.12.2 MAGISTER TECHNOLOGIAE: PHARMACEUTICAL SCIENCES

Qualification code: MTPL01

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Pharmaceutical Sciences or an NQF level 7 Health- or Pharmaceutical Sciences-related bachelor's or honours degree from a South African university.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess

these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

b. Selection criteria:

Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration:

A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.

d. Presentation and campus:

Arcadia Campus (research).

e. Structure:

This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.

f. Subject credits:

Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
PHR500T	Dissertation: Pharmaceutical Sciences	(1,000)
PHR500R	Dissertation: Pharmaceutical Sciences (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

### 6.12.3 DOCTOR TECHNOLOGIAE: PHARMACEUTICAL SCIENCES

Qualification code: DTPL01

#### REMARKS

a. Admission requirement(s):

A Magister Technologiae: Pharmaceutical Sciences or an NQF level 8 Health- or Pharmaceutical Sciences-related master's degree from a South African university.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications

Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

b. Selection criteria:

Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

c. Duration:

A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.

d. Presentation and campus:

Arcadia Campus (research).

e. Structure:

This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.

f. Subject credits:

Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
PHR700T	Thesis: Pharmaceutical Sciences	(2,000)
PHR700R	Thesis: Pharmaceutical Sciences (re-registration)	(0,000)

TOTAL CREDITS FOR THE QUALIFICATION: **2,000**

## 6.12.4 MAGISTER TECHNOLOGIAE: SOMATOLOGY

Qualification code: MTSY99

### REMARKS

a. Admission requirement(s):

A Baccalaureus Technologiae: Somatology or an equivalent qualification.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.
- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
STG500T	Dissertation: Somatology	(1,000)
STG500R	Dissertation: Somatology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.12.5 SUBJECT INFORMATION

Syllabus content subject to change to accommodate industry changes.

**SUBJECT NAME:** CLINICAL RESEARCH  
**SUBJECT CODE:** CRH500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

Study design in clinical trials. Biopharmaceutics. Case reports. Good clinical practice (GCP) and good laboratory practice (GLP).

**SUBJECT NAME:** COMMUNITY PHARMACY  
**SUBJECT CODE:** CYH500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available  
**OVERVIEW OF SYLLABUS:**

Principles of pharmaceutical care. Drug information. Human resource management.

**SUBJECT NAME:** MEDICINE GOVERNANCE  
**SUBJECT CODE:** MGE500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

National drug policies. Drug regulation in South Africa. Regulation of complementary medicines, veterinary medicines and medical devices.

**SUBJECT NAME:** PHARMACEUTICAL PRODUCTION  
**SUBJECT CODE:** PRU500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Formulation of dosage forms. Establishing the quality of pharmaceutical products. Packaging and labelling of pharmaceuticals.

**SUBJECT NAME:** PHARMACO-ECONOMICS  
**SUBJECT CODE:** PHN500T  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Basic economic concepts. Efficiency concepts. Economic evaluations. Drug utilisation reviews.

**SUBJECT NAME:** RESEARCH METHODOLOGY  
**SUBJECT CODE:** RMD500C  
**EVALUATION METHOD:** CONTINUOUS ASSESSMENT  
**TOTAL TUITION TIME:** Not available

**OVERVIEW OF SYLLABUS:**

Qualitative and quantitative research. Protocol writing. Report writing. Basic statistics.

## 6.13 DEPARTMENT OF PHYSICS

### 6.13.1 MAGISTER TECHNOLOGIAE: FIRE TECHNOLOGY

Qualification code: MTFY01

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Fire Technology or Fire Services.

Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.

Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.

In addition, a prospective student should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.

- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the

approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Arcadia Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
FIT500T	Dissertation: Fire Technology	(1,000)
FIT500R	Dissertation: Fire Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.14 DEPARTMENT OF SPORT, REHABILITATION AND DENTAL SCIENCES

### 6.14.1 MAGISTER TECHNOLOGIAE: DENTAL TECHNOLOGY

Qualification code: MTD95

#### REMARKS

- a. Admission requirement(s): A Baccalaureus Technologiae: Dental Technology.  
  
Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.  
  
Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.  
  
In addition, a candidate should successfully complete Research Methodology in the first year of study if it was not included in a previous qualification.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the

approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.

These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of one year and a maximum of three years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a dissertation. Before the final assessment report of the dissertation will be considered, the manuscript of at least one scientific paper, which is a requirement for the degree, has to be handed in. It has to be ready for submission for publication in a peer-reviewed journal (preferably accredited). The student has to present a colloquium before submitting the dissertation.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
DTN500T	Dissertation: Dental Technology	(1,000)
DTN500R	Dissertation: Dental Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>1,000</b>

## 6.14.2 DOCTOR TECHNOLOGIAE: DENTAL TECHNOLOGY

Qualification code: DTD96

### REMARKS

- a. Admission requirement(s): A Magister Technologiae: Dental Technology.
- Holders of any other equivalent South African or foreign qualifications may also be considered, but will have to apply in advance ( $\pm$  six months) for recognition of such qualifications. Foreign students will be required to submit an evaluation of their qualifications by the South African Qualifications Authority (SAQA). The Faculty reserves the right to assess these qualifications and the applicant's suitability/competence for admission to the programme. Proof of English proficiency may be required.
- Depending on the nature of such an equivalent qualification, the completion of certain additional subjects may be required.
- b. Selection criteria: Selection is based on a personal interview with a departmental selection panel. Registration prior to the approval of a research proposal is provisional and will be made official only when the proposal is approved by the Faculty Higher Degrees Committee.
- These procedures will be fully explained to each prospective student during his or her personal interview.

- c. Duration: A minimum of two years and a maximum of five years. Students have to re-register annually for this qualification.
- d. Presentation and campus: Pretoria Campus (research).
- e. Structure: This qualification consists of a research project in the form of a thesis. Before the final assessment report of the thesis will be considered, at least two scientific articles, based on the research and approved by the supervisor, should have been submitted for publication to peer-reviewed journals (preferably accredited). Written proof that the journals have received the article(s) has to be handed in as part of the requirements for the degree. The student has to present a colloquium before submitting the thesis. He or she should also successfully defend the thesis before the degree will be conferred.
- f. Subject credits: Subject credits are shown in brackets after each subject.

CODE	SUBJECT	CREDIT
DTN700T	Thesis: Dental Technology	(2,000)
DTN700R	Thesis: Dental Technology (re-registration)	(0,000)
TOTAL CREDITS FOR THE QUALIFICATION:		<b>2,000</b>