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## **VISION OF THE UNIVERSITY OF THE FREE STATE**

To be an excellent, equitable and innovative university

## **VISION OF THE FACULTY OF EDUCATION**

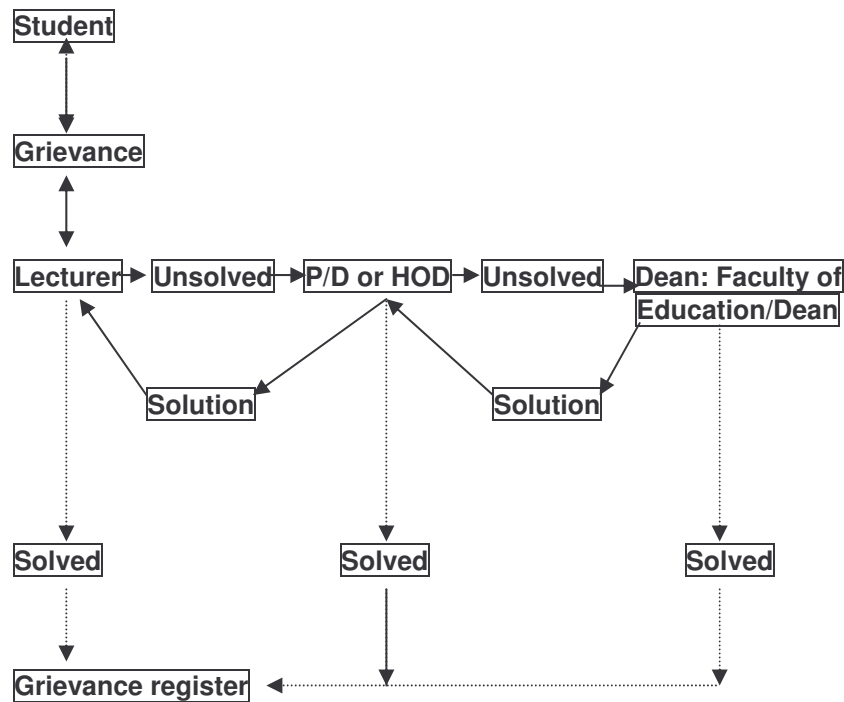
To be a Faculty of excellence in the field of Education

## **STUDENTS WITH SPECIAL EDUCATIONAL NEEDS**

Students who have special needs should bring this to the attention of the staff when they register for the course. Examples of special learning needs may be:

- Impaired vision, where the study material and test and exam papers may be provided in a larger letter type;
- Hearing loss, where the student may ask for preferential seating in the venue;
- A physical disability, where special accommodation may be necessary during examinations; or
- Any other accommodations that may make learning more accessible for students with special learning needs.

## THIS FLOW CHART ILLUSTRATES THE GRIEVANCE PROCEDURE FOR STUDENTS WITH PROBLEMS



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**REG. G2 BACCALAUREUS EDUCATIONIS (B.Ed.)  
NQF LEVEL 6**

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**G.2.1 CAREER OPPORTUNITIES**

The Baccalaureus Educationis (B.Ed.) is a qualification accrediting initial teacher training for educators in schools. It is intended for students seeking a focused teaching degree which would qualify them as professional educators for Further Education and Training Phases. This qualification is also suitable for the training of expertise for education-related careers such as instructors and trainers.

The following degrees will be awarded:

<b>Name</b>	<b>Study code</b>
B.Ed. (Further Education and Training Phase)	7314

**G2.2 ADMISSION REQUIREMENTS**

The institutional regulations of the University in respect of admission to degree study (general regulation A2) are applicable for admission to this degree.

New additional admission requirements for the B.Ed. degree are effective as from 2009. To enable prospective students to compare the new additional admission requirements with the previous requirements, the new requirements are followed by the previous requirements in italics.

Students must be in possession of a National Senior Certificate and a minimum admission (AP) score of 28. The language of instruction can be in either English or Afrikaans subject to a minimum achievement level 4 (50%).

**G2.2.3 ADMISSION: CAREER PREPARATION PROGRAMME (CPP)**

Prospective students who do not meet the admission requirements of the University of the Free State may enrol for a one-year Career Preparation Programme (CPP), at the Motheo Further Education and Training (FET) College in Bloemfontein to obtain admission to the university. Successful completion of the Career Preparation Programme will provide admission to a B.Ed.-degree the following year.

### Clarification

The admission requirements for the Career Preparation Programme:

- a National Senior Certificate with an admission point of 17-22. The language of instruction in English or Afrikaans is subject to minimum achievement level 3 (40%)

*Previously:*

*Clarification*

*The admission requirements for the Career Preparation Programme:*

- *a Senior Certificate with Endorsement (Matriculation Exemption) and a minimum score of 12 to 27 points.*
- *a Senior Certificate without endorsement (Matriculation Exemption) and a minimum score of 12 points.*
- The CPP is only offered in English at the Motheo College. Study material, tests and examination papers can be supplied in Afrikaans and writing of the tests, assignments and examinations is allowed in Afrikaans.
- A module can be offered in Afrikaans provided that there are twenty (20) or more Afrikaans-speaking students taking the module.
- Prospective students who prefer to study for the CPP in Afrikaans can do so at the Oudtshoorn FET College campus of the CPP. Accommodation is available at the College.
- Information regarding the CPP and further details can be obtained from the Faculty Manager, Faculty of Education, University of the Free State.

### **G2.3 ADDITIONAL REQUIREMENTS AND REGULATIONS**

In addition to the institutional regulations of the University for admission, the following requirements are also applicable:

#### **G2.3.2 Chemistry, Physics and Computer Science and Informatics**

Mathematics passed in the National Senior Certificate with an achievement level 4 (50% plus).

*Previously:*

*Mathematics (Higher Grade) passed in the Senior Certificate with an E symbol or Mathematics (Standard Grade) passed with a C symbol.*

BRS111 is a **co**-requirement for RIS134; therefore, RIS134 may not be taken unless BRS111 is taken **simultaneously** with it.

Students who passed grade 12 Information Technology (IT) on achievement level 4 (50% plus), or Computer Application Technology (CAT) on achievement level 5 (60%plus), are exempted from BRS111.

*Previously:*

*Students who passed Computer Studies in Grade 12 with a D (HG) or C (SG) are exempted from BRS111*

### **G2.3.3 CEM124 or CEM144 as a choice**

- CEM124 must preferably be taken by students who want to continue with Chemistry in the second year.
- CEM144 must preferably be taken by students who want to do Chemistry for one year only.
- CEM144 can lead to the study of second year Chemistry provided that a pass rate of at least 60% has been achieved in CEM144.

### **G2.3.5 FSK114 or FSK134 as elective**

- Students who took grade 12 Mathematics and Physical Sciences and attained an achievement level 6 (70% plus) and students who plan to continue with Physics in their second year of study, are advised to take FSK114.

*Previously:*

*Students who took higher grade Mathematics and higher grade Science in grade 12 and achieved an A or a B symbol and students who plan to continue with Physics in their second year of study, are advised to take FSK114.*

- Students who plan to study first year Physics only, are advised to study FSK134.

### **G2.3.7 Sesotho**

Passed Sesotho (First Language) in the National Senior Certificate.

### **G2.3.8 Mathematics**

National Senior Certificate with Mathematics achievement level 4 (50% plus). Alternatively a pass mark in WTW 164 is required.

*Previously:*

*Senior Certificate, Mathematics (Higher Grade) passed with a D-symbol. A student, who has passed Mathematics (Standard Grade) with an A- symbol, can, with the approval of the Departmental Chairperson, be admitted to WTW114.*

### **G2.3.9 WTW114 or WTW134 as elective**

- WTW114 should preferably be selected by students who plan to continue with Mathematics in their second year of study and who have attained achievement level 6 (70% plus) in Grade 12 Mathematics. Alternatively, a pass mark of at least 70% in WTW 164 is required.



- WTW134/144: Students who plan to study first year Mathematics only are advised to study WTW134 and WTW 144 and it is strongly recommended that students must have attained at least achievement level 4 (50%) in Grade 12 Mathematics.
- WTW154: Students who plan to study the subject education of Mathematics Literacy are advised to study at least WTW154 and WTW164. Students must have attained achievement level 6 (70% plus) in Mathematics Literacy or achievement level 4 (50% plus) in Grade 12 Mathematics

Previously:

**WTW114 or WTW134 as elective**

- WTW114 should preferably be selected by students who achieved an A or a B symbol in higher grade Mathematics in Grade 12 and by students who plan to continue with Mathematics in the second year of study
- WTW134: Students who plan to study first year Mathematics only are advised to study WTW134 and it is strongly recommended that students have at least a C symbol in Grade 12 standard grade.

**G2.3.14 Regulations for the shift from 8 credit modules to 16 credit modules**

Students must take note that the under-mentioned listed modules were originally **8 credit modules** which are increased to **16 credit modules**. The new 16 credit modules are listed under the heading "**New codes**". Students may only repeat the 8 credit modules in the subsequent year. If more than one year elapses before a student repeats the modules, the student has to register for the appropriate 16 credit module.

**English**

New codes	Old codes
The equivalents are outlined below. A code can be used only once in a conversion and all conversions are subject to the approval of the head of department	
EBE112	ENS112 of EGT112
EBE122	ENS122 of EGT122
ENG114	<b>Either</b> ENG 112 and ENG132 <b>or</b> ENS132 <b>plus</b> either EBE112 or ENS112 or EGT112 <b>or</b> EPE114 <b>or</b> ENG104
ENG124	<b>Either</b> ENG122 and ENG142 <b>or</b> ENS142 <b>plus</b> either EBE122 or ENS122 or EGT112 <b>or</b> EPE124 <b>or</b> ENG104
ENG214	<b>Either</b> ENG212 and ENG232, <b>or:</b> ENG212 or ENG242 combined with ENP212 or ENF212

ENG224	<b>Either</b> ENG222 and ENG242, <b>or:</b> ENG222 or ENG242 combined with ENP212 or with ENF212
ENG314	<b>Either</b> any two of the following modules ENG332, ENG322, ENG342, ENG362, and ENP352, <b>or</b> any of the above modules combined with any one of the following: ENF312, EAL312, ENF322, EAL332, EAL362, ENP322 ENP362
ENG324	<b>Either</b> any two of the following modules: ENG332, ENG322, ENG342, ENG362, ENP352, <b>or</b> any of the above modules combined with any one of the following: ENF312, EAL312, ENF322, EAL332, EAL362, ENP322, ENP362
EAL214	<b>Either</b> ENP212 and ENF212, <b>or:</b> Either of the above modules combined with <b>either</b> ENG212 <b>or</b> with ENG232
EAL224	<b>Either</b> any two of the following modules ENF222, ENG242, ENG282 and LIN242 <b>or:</b> either ENF222 or ENG242 combined with ENG222
ENP214	<b>Either</b> ENF212 and ENF222 <b>or</b> ENP212 or ENP282 or LIN242 combined with any one of the following modules: ENG212, ENG232, ENG222, ENG242
EAL314	Any <b>two</b> of the following modules: ENF312, ENF322, ENP322, EAL312, EAL332, EAL362, ENP362, or any one of the afore-mentioned in combination with ENG332, ENG322, ENG342, ENG362, ENP352
EAL324	Any <b>two</b> of the following modules: ENF312, ENF322, ENP322, EAL312, EAL332, EAL362, ENP362, or any one of the afore-mentioned in combination with ENG332, ENG322, ENG342, ENG362, ENP352
ENP324	Any <b>two</b> of the following modules: ENF312, ENF322, ENP322, EAL312, EAL332, EAL362, ENP362, or any one of the afore-mentioned in combination with ENG332, ENG322, ENG342, ENG362, ENP352

### **Mathematics**

<b>New code</b>	<b>Old code</b>
EGM114	EGM112 + EGM132 AWJ112 + AWJ132
EGM124	EGM122+EGM142 AWJ122 + AWJ142

## **Psychology**

<b>New codes</b>	<b>Old codes</b>
PSY112	PSY112
PSY152	PSY142
PSY124	PSY132
PSY224	PSY122
PSY232	PSY232
PSY212	PSY212
PSY322	PSY222
PNA332	PNA332
PNA322	PNA322
PTV352	PSY242
PSY342	PSY342
PTV312	PTV312

### **G2.4 Learning area /Subject education**

#### **G2.4.1 Requirements for learning area education or subject education**

To follow a particular subject education, a learner must have passed the related subject(s) at least at the 200-level, as subject education should be a continuance of the elective subjects followed (See also exceptions in G2.3.11, G2.3.12 and G2.3.13)

Students intending to follow learning area education/subject education in:

- Consumer Studies: must have passed Clothing and Foods or Cooking on at least 100-level.
- Drama, Theatre and Arts: (TRO111, DRO131, DOV112, TOV122 and SOV122) must have passed Drama and Theatre at the 300-level.
- Life orientation (Career and Career Choices): must have passed Psychology at 200 level and Sociology/Political Science/Political Science/Human Movement Science/Labour Studies/Philosophy (Human Rights and Ethics) at least at 100 level;
- Life orientation (Recreation and physical well-being): must have passed Human Movement Science at 200 level and Sociology/Political Science/Psychology/Labour Studies/Philosophy (Human Rights and Ethics) at least at 100 level;

- Life Sciences for the Further Education and Training Phase: must have passed Biology at the 100-level and Botany/Zoology/Micro Biology/Physiology/Bio-Chemistry at least at the 200-level;
- Mathematics, for the Senior Phase: must have passed Mathematics at least at the 100-level;
- Mathematics, for the Further Education and Training Phase: must have passed Mathematics at least at the 200-level;
- Natural Sciences with Biology, for the Senior Phase: must have passed Biology at least at the 100-level;
- Natural Sciences with Physics and Chemistry, for the Senior Phase: must have passed Physics and Chemistry at least at the 100-level;
- Physical Sciences, for the Further Education and Training Phase: must have passed one subject (Physics or Chemistry) at least at the 200-level and the other (Physics or Chemistry) at the 100-level;

Learning area education/subject education for the Further Education and Training Phase must be chosen in accordance with the Table 1:

**G2.4.2 TABLE 1  
LEARNING AREA EDUCATION/SUBJECT EDUCATION**

	<b>SEMESTER 1</b>	<b>SEMESTER 2</b>
<b>ACCOUNTING EDUCATION</b>	<p>AEO112 Curriculum cycle and a process approach</p> <p>AEO132 Situation analysis, aims and objectives</p>	<p>REO122 Methods and media in accounting education</p> <p>REO142 Assessment, year planning and homework in accounting education</p>
<b>BUSINESS ECONOMICS EDUCATION</b>	<p>AEO112 Curriculum cycle and a process approach</p> <p>AEO132 Situation analysis, aims and objectives</p>	<p>BEO122 Methods and media in Business Economics education</p> <p>BEO142 Assessment, year planning and homework in business economics education</p>
<b>COMPUTER EDUCATION</b>	<p>MRF112 Didactic principles and application programmes</p> <p>MRF132 Problem solving, algorithm and high level language</p>	<p>MRF124 Assessment, renewal and project programming</p>
<b>ECONOMICS EDUCATION</b>	<p>AEO112 Curriculum cycle and a process approach</p> <p>AEO132 Situation analysis, aims and objectives</p>	<p>ECT122 Methods and media in economics education</p> <p>ECT142 Assessment, year planning and homework in economics education</p>

	<b>SEMESTER 1</b>	<b>SEMESTER 2</b>
<b>ENGLISH EDUCATION</b>	LTM112 Subject teaching languages I  LTM132 Subject teaching languages II	MFZ122 Teaching methods in English  MFZ142 Language teaching practice in ELT
<b>GEOGRAPHY EDUCATION</b>	SOF112 General orientation in the Human and Social Sciences  SOF132 The learning environment and planning in the Human and Social Sciences	GOF122 General orientation to Geography teaching  GOF142 The learning environment and planning in Geography teaching
<b>LIFE ORIENTATION EDUCATION</b>	MSI 114 Personal well-being and citizenship education	MSU124 Career and career choices <b>OR</b> LOM 124 Recreation and physical well-being
<b>LIFE SCIENCES EDUCATION</b>  <i>FET Phase</i>	LNW112 The nature of Natural Sciences Education  VBL132 Life Sciences subject knowledge and didactic principles	VBL162 Life Sciences subject knowledge and application  VBL182 Managing a Life Sciences laboratory
<b>MATHEMATICS EDUCATION</b>  <i>Senior Phase</i>	WOS112 Classroom management and assessment in Mathematics Education  WOS132 Effective teaching and learning in Mathematics	WOS122 Subject perspective (Mathematics) I  WOS142 Subject perspective (Mathematics) II

	<b>SEMESTER 1</b>	<b>SEMESTER 2</b>
<b>MATHEMATICS EDUCATION</b>  <i>FET Phase</i>	WOF112 Classroom management and assessment in Mathematics Education  WOF132 Effective teaching and learning in Mathematics	WOF122 Subject perspective (Mathematics) I  WOF142 Subject perspective (Mathematics) II
<b>MATHEMATICS LITERACY EDUCATION</b>	WGL 114 Technology and teaching methods in teaching numbers, operations and functional relationships	WGL 124 Planning and assessment in teaching space, shape, measurement and data handling
<b>NATURAL SCIENCES: (BIOLOGY EDUCATION)</b>  <i>Senior phase</i>	LNW112 The nature of Natural Sciences Education  VBL112 Biology subject knowledge and didactic principles	VBL122 Biology subject knowledge and application  VBL142 Managing a biology laboratory
<b>PHYSICAL SCIENCES EDUCATION</b> <i>Senior Phase</i> <b>Learning area: Natural Sciences Education (Physical Sciences)</b>	LNW112 The nature of Natural Sciences Education  VNS112 Physical Sciences Education I	VNS122 Physical Sciences Education II  VNS142 Physical Sciences Education III
<b>PHYSICAL SCIENCES EDUCATION</b>  <i>FET Phase</i>	LNW112 The nature of Natural Sciences Education  VNS132 Physical Sciences Education I	VNS162 Physical Sciences Education II  VNS182 Physical Sciences Education III

	SEMESTER 1	SEMESTER 2
<b>SESOTHO EDUCATION</b>	LTM112 Subject teaching languages I  LTM132 Subject teaching languages II	VSS124 Methods, techniques and activities in the teaching of Sesotho

## **G2.5 TEACHING PRACTICE**

Students must submit evidence of successful participation with regard to the following activities, not later than the date for submission of marks during the second examination opportunities (July or January):

### **G2.5.1 Practical Teaching (ETV101, ETV201, ETV301, ETV401)**

- Students obtain a pass mark by means of various forms of continuous assessment, according to the stipulations of the Department of Curriculum Studies
- ETV101 students must also submit a certificate of competence indicating successful completion of the recommended reading course

### **G2.5.2 Sports and cultural activities**

Students must also give proof of the following:

- Certificates in two sports and/or cultural activities of the student's choice. (A student also qualifies upon obtaining at least two official and/or refereeing and/or adjudicating certificates in one or more sports or cultural activities).

### **G2.5.3 First aid and/ or occupational safety**

A certificate in first aid and/or occupational safety (both certificates are recommended for students who enrol for Technology).

## **G.2.6 LANGUAGE ENDORSEMENTS**

- (b) All students specialising in the Further Education and Training Phases have to offer TWO courses (16 credits each) in Language Proficiency and Communication. Students have to choose TWO of the following courses:
- Afrikaans (AFP132/142 OR



- English (ETB112/122)  
AND
  - Afrikaans/English OR
  - Sesotho (ETC112/122)
- (c) A distinction will be made (on the certificate) between a higher (AE) language proficiency (where two of these languages are passed with 60%) – and a lower (Ae or Ea) language proficiency (where one of the languages is passed with 60%, and the other with less than 60%). For students offering a Language Proficiency course in African Languages, the same norm of 60% applies to the language combination with respect to either Afrikaans or English. A distinction shall be made on the certificate to distinguish, for example between a higher (AS) language proficiency (where Afrikaans and Sesotho both have been passed with 60%) and a lower language proficiency (As or aS) where 60% is obtained in either Afrikaans or Sesotho and less than 60% in the other.
- (d) Students who pass one of the above-mentioned languages as an elective subject (200-level – 64 credits) are exempted from the relevant section of the Language Proficiency course.

## **G2.7 DURATION OF STUDY**

The duration of the B.Ed. degree is four years full-time.

## **G2.8 ASSESSMENT**

The institutional rules of the University in respect of assessment and examination are *mutatis mutandis* applicable to this degree study.

Module assessment implies the assessment of knowledge, skills and attitudes by means of continuous assessment (module mark) as well as a final assessment (exam mark) in a ratio of 1:1.

### **G2.8.1 Continuous assessment**

Continuous assessment consists of different items as set out in the particular study guide. Two thirds ( $\frac{2}{3}$ ) of the module mark can be obtained by means of compulsory participation in more comprehensive item(s) (tests and/ or assignments). In case of tests, in this category, a second assessment opportunity will be arranged (vide the programme of the particular module). Assignments that are submitted late, will be penalised with 10% of the mark obtained on a daily basis.

Additional assessment opportunities ( $\frac{1}{3}$  of the module mark) of limited extent may take place during lecturing periods – also on an unscheduled base. A student will forfeit the mark in case of absence from such an assessment opportunity. Module marks are not transferable from one year to another.

### **G2.8.2 Incomplete**

A module will be regarded as incomplete in cases where a student:

- Did not participate in the compulsory assessment opportunity/ies of extensive nature ( $\frac{2}{3}$  of the module mark);
- Participated in less than 50% of the assessment opportunities of limited extent ( $\frac{1}{3}$  of the module mark).

“Incomplete” implies that a student will not be allowed to participate in the scheduled examination opportunities.

**G2.8.3** Students have to participate in the scheduled University examination in order to obtain a combined mark of at least 50% (a minimum examination mark of 40% is required). The average of the module mark and the examination mark will constitute the **final mark** (rounded off to a percentage integer) of the module in a 1:1 proportion.

**G2.8.4** The University schedules two examination opportunities per semester, namely June and July for the modules of the first semester and November and January for the modules of the second semester. Students obtaining a final mark of 45% to 49% during the **first examination opportunity** (June or November), as well as an examination mark with a minimum of 30%, may participate in the second examination opportunity in order to obtain a pass mark.

**G2.8.5** Students, absent from the first examination opportunity (June or November) do not have to submit any proof of absence and may participate in the second examination opportunity (July or January). Students, who missed the first, as well as the second scheduled examination opportunities, will not have access to any additional assessment opportunities and will have to repeat the module the following year.

**G2.8.6** Assessment during the scheduled University examinations will take the form of a one-hour paper on each 8-credit module and a two hour paper on each 16 credit module.

**G2.8.7 Re-admission for failed/incomplete modules**

The qualification will be awarded when **all** modules have been completed successfully. Attention is drawn to general regulation A19 where it is stipulated that a student is not allowed to register for a module more than twice, except with the permission of the Dean of the Faculty.

**G2.8.8** To obtain a distinction in a module a final mark (module mark or combined mark) of 75% or more has to be obtained.

**G2.8.9 Qualification with distinction:**

The General Regulations of the University in respect of *qualification with distinction* (Reg.A18) is *mutatis mutandis* applicable to the B.Ed-degree.

**G2.8.10 Examination irregularities**

The General Regulations of the University in respect of *examination irregularities* is *mutatis mutandis* applicable to the B.Ed.-degree.

**G2.9 CURRICULUM**  
**G2.9.3 BACCALAUREUS EDUCATIONIS (FURTHER EDUCATION AND TRAINING PHASE)**  
**Study code: 7314** **Credits 540**

**FIRST ACADEMIC YEAR**

**First Semester**

CODE	NAME OF MODULE	CREDITS
XXX	Elective subject 1*	Minimum 16 credits
XXX	Elective subject 2*	Minimum 16 credits
XXX	Elective subject 3*	Minimum 16 credits
EDS132	Curriculum design	8
EDM132	Teaching methods, Instructional Technology and instructional materials	8
BRS111	Basic Computer Literacy	4
ETV101	Practical Teaching	2
<b>TOTAL</b>		<b>70</b>

\* See List B for specific subjects and codes

**Second Semester**

CODE	NAME OF MODULE	CREDITS
XXX	Elective subject 1*	Minimum 16 credits
XXX	Elective subject 2*	Minimum 16 credits
XXX	Elective subject 3*	Minimum 16 credits
EDL122	Leadership principles in the management of the didactical situation	8
EDA122	Assessment	8
ETV101	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See List B for specific subjects and codes

## SECOND ACADEMIC YEAR

### First Semester

CODE	NAME OF MODULE	CREDITS
XXX	Continuation of Elective subject 1*	Minimum 16 credits
XXX	Continuation of Elective subject 2*	Minimum 16 credits
EPI112	Intelligence, Attention and Memory	8
EPM112	Motivation	8
AFP132 ETB112 ETC112 ETZ112	#Language Proficiency and Communication in <b>TWO</b> of the following: Effective formulation in Afrikaans English Sesotho Zulu	8 + 8
ETV201	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See List B for specific subjects and codes

# See regulation G2.6

### Second Semester

CODE	NAME OF MODULE	CREDITS
XXX	Continuation of Elective subject 1*	Minimum 16 credits
XXX	Continuation of Elective subject 2*	Minimum 16 credits
ESM122	Learning and Study Methods	8
EHD122	Development Phases of the learner	8
AFP142 ETB122 ETC122 ETZ122	#Language Proficiency and Communication in <b>TWO</b> of the following: Strategies for persuasion in Afrikaans English Sesotho Zulu	8 + 8
ETV201	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See List B for specific subjects and codes

# See regulation G2.6

## THIRD ACADEMIC YEAR

### First Semester

CODE	NAME OF MODULE	CREDITS
XXX	Continuation of Elective subject 1*	Minimum 16 credits
XXX	Continuation of Elective subject 2*	Minimum 16 credits
EFK112	Outcomes-based education: A critical approach	8
EFA112	Culture and education	8
ELX112	Career orientation, self actualisation and relationship skills.	8
ELF112	Life- and worldview	8
ETV301	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See List B for specific subjects and codes

### Second Semester

CODE	NAME OF MODULE	CREDITS
XXX	Continuation of Elective subject 1*	Minimum 16 credits
XXX	Continuation of Elective subject 2*	Minimum 16 credits
EFD122	Democracy and Human Rights	8
EFT122	Education and Transformation	8
ESS122	Social problems: At-risk children	8
ESI122	Invitational Teaching	8
ETV301	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See List B for specific subjects and codes

## FOURTH ACADEMIC YEAR

### First Semester

CODE	NAME OF MODULE	CREDITS
XXX	Subject Education 1 *	16
XXX	Subject Education 2 *	16
DPH132	Physical and health education	8
EMC112	Education and Gender in S.A.	8
EMG112	Multicultural Education in S.A.	8
EGE112	Eurocentric and Afrocentric Education in SA	8
ETV401	Practical Teaching	2
<b>TOTAL</b>		<b>66</b>

\* See Table 1 for learning area/subject education (see also Reg. G2.3.11 and G2.4)

### Second Semester

CODE	NAME OF MODULE	CREDITS
XXX	Subject Education 1 *	16
XXX	Subject Education 1 *	16
RLO142	A survey of the religions of South Africa and the education of religion in the senior and FET phases	8
ECS122	South African Education System and professionalism	8
EJI122	Classroom management and related judicial issues	8
ETV401	Practical Teaching	2
<b>TOTAL</b>		<b>58</b>

\* See Table 1 for learning area/subject education. See also Reg. G2.3.11, and G2.4

### List B: Approved subjects for teacher education programmes for the Senior and Further Education and Training Phases

Students specialising in the B.Ed. (Further Education and Training Phase) have to present at least 2 subjects on 300 level (96 credits each) and an additional subject on at least 100 level (32 credits) from the list below (also see regulations in G2.3).

### LIST B

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
<b>ACCOUNTING</b>						
Accounting	ACC108					
Management accounting and finance			BRF214			
Accounting				REK204		
Accounting					REK308	
<b>BIOLOGY</b> (Botany and Zoology)						
Molecular and cell Biology	BLG114					
Plant Biology		BLG124				
Animal Biology		BLG144				
<b>BOTANY</b> (48-credits at 2 <sup>nd</sup> -year level and 64-credits at 3 <sup>rd</sup> -year level)						
Plant anatomy and introductory biotechnology			PLK214			
Practical plant morphology and propagation (practical)			PLK212			
Plant growth and developmental physiology				PLK224		
Experimental plant physiology (practical)				PLK262		
Taxonomy and ecology of vascular plants (including a field excursion)					PLK314	
Environmental change and ecology					PLK334	
Plant metabolism						PLK324



SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Plant defence and biotechnology						PLK344
<b>BUSINESS MANAGENENT</b>						
General management	OBS134					
Marketing		OBS144				
Fundamentals of financial management			OBS234			
Entrepreneurship				OBS244		
Strategic management					OBS314	
Advanced marketing management						OBS324
<b>OR</b>						<b>OR</b>
Financial management						OBS364
<b>CHEMISTRY</b> (48-credits at 2 <sup>nd</sup> -year level and 64-credits at 3 <sup>rd</sup> -year level)						
Physical chemistry			CEM214			
Analytical chemistry			CEM232			
Organic chemistry				CEM224		
Inorganic chemistry				CEM242		
Analytical chemistry					CEM314	
Physical chemistry					CEM334	
Inorganic chemistry						CEM324
Organic chemistry						CEM344

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
<b>COMPUTER SCIENCE AND INFORMATICS</b> (48-credits at 2 <sup>nd</sup> -year level and 64-credits at 3 <sup>rd</sup> -year level)						
Basic Computer Literacy (Co-requisite for RIS134)	BRS111					
Advanced computer usage		BRS121				
Introduction to computers for business environments	RIS134					
Introduction to computers for science environments	RIS114					
Introduction to information systems		RIS144				
Advanced Programming		RIS124				
Introduction to Computer apparatus	RIS154					
Introduction to the Internet and Web Page Development		RIS164				
Data structure			RIS214			
Implementation of object-oriented information solutions			RIS234			
Software design			RIS274			
User interfaces				RIS224		
Information Technology service learning <b>(B.Sc. IT students)</b>				RIS242		
Introduction to databases and database management systems					RIS314	
Internet Programming						RIS334

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Software engineering						RIS324
Computer networks						RIS344
<b>ECONOMICS</b>						
Introduction to economics	EKN108					
Micro-economics			EKN214			
Macro-economics				EKN224		
International economics					EKN314	
South African economic policy issues						EKN324
<b>ENGLISH</b> (32 credits per year level)						
Introduction to English Skills	ENG198					
Drama and poetry in African and other literatures in English			ENG214			
Prose fiction in African and other literatures in English				ENG224		
Drama and poetry in African and other literatures in English					ENG314	
Prose fiction in African and other literatures in English						ENG324
Introduction to Applied Language Studies in English			EAL214			
Applied Language Studies in English				EAL224		
English for the Professions			ENP214			

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Applied Language Studies in English					EAL314	
Applied Language Studies in English						EAL324
English for the Professions						ENP324
<b>GEOGRAPHY</b>						
Introduction to Physical Geography	GEO114					
Introduction to human geography and cartography		GEO124				
Urban development			GEO214			
Environmental studies				GEO224		
Applied urban development and spatial transformation					GEO314	
Environmental management and analysis						GEO324
<b>MATHEMATICS</b>						
Calculus	WTW114					
<b>OR</b>	<b>OR</b>					
Calculus	WTW134					
Algebra and differential equations		WTW124				
<b>OR</b>	<b>OR</b>					
Calculus & linear algebra		WTW144				
Vector analysis			WTW214			
Linear algebra				WTW224		

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Sequences and series				WTW262		
Complex analysis					WTW314	
Discrete mathematics					WTW334	
Real analysis						WTW324
Algebra						WTW344
<b>PHYSICS</b> (48-credits at 2 <sup>nd</sup> -year level and 64-credits at 3 <sup>rd</sup> -year level)						
Mechanics, optics and electricity	FSK114					
<b>OR</b>	<b>OR</b>					
Mechanics, optics, electricity, biologically and medically relevant topics	FSK134					
Mechanics, thermodynamics, electricity and magnetism		FSK124				
<b>OR</b>		<b>OR</b>				
Mechanics, thermodynamics, electricity, magnetism, biologically and medically relevant topics		FSK144				
Mechanics, waves and optics			FSK214			
Practical work: physics			FSK232			
Electronics				FSK224		
Electromagnetism				FSK242		
Special topics in optics				FSK262		
Modern physics					FSK314	

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Statistical physics I					FSK332	
Practical work: Physics					FSK352	
Solid-state physics						FSK324
Statistical physics II						FSK342
Practical work: Physics						FSK362
<b>PSYCHOLOGY</b> (at least on 200 level (64 credits) to be allowed to follow Subject Education in Guidance)						
1. Psychology as science 2. Biological basis of behaviour 3. Human development 4. Positive psychology		SIL108				
Psychopathology			PSY212			
Personality psychology			PSY232			
Developmental Psychology				PSY224		
Advanced therapeutic skills ( <i>optional: recommended for Hons.</i> )					PTV312	
The foundations of psychological counselling					PTV352	
Research methodology (Descriptive Statistics)					PNA332	
Research methodology (Inferential Statistics)						PNA322
Introduction to social psychology						PSY322
Advanced Social Psychology ( <i>optional: recommended for Hons.</i> )						PSY342

SUBJECT / MODULE	FIRST YEAR		SECOND YEAR		THIRD YEAR	
	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
<b>SESOTHO</b> (mother tongue)						
The Oral Tradition in Sesotho	SSM112					
Sesotho Language Studies: Phonology and Morphology	SSM132					
Sesotho Oral tradition: Thematic Analysis		SSM122				
Sesotho Language Studies: Syntax and Semantics		SSM142				
Discourse Analysis in Sesotho			SSM212			
Narrative Prose in Sesotho			SSM232			
Sociolinguistics in Sesotho				SSM222		
Sesotho Drama				SSM242		
The Historical Development of Sesotho as a Functional Language					SSM312	
Heroic Poetry in Sesotho					SSM332	
Terminography and Lexicography in Sesotho						SSM322
Modern poetry in Sesotho						SSM342
<b>ZOOLOGY</b> (48-credits at 2 <sup>nd</sup> -year level and 64-credits at 3 <sup>rd</sup> -year level)						
Parasites, Vectors and Toxic Animals			DRK214			
Invertebrates: Biodiversity (practical)			DRK252			
African Vertebrates				DRK224		
Invertebrates: Research Techniques (practical)				DRK262		

Marine and Freshwater Ecology (lectures and practical – including a field excursion)			DRK314
Conservation Ecology			DRK334
Systematics and Population Genetics			ZOO324
Immunoparasitology			ZOO344



**REG. G11 PREREQUISITES FOR MODULES OFFERED  
IN THE LEARNING PROGRAMMES AT THE  
FACULTY OF EDUCATION**

For the preconditions of all the modules that are offered at the University, you are referred to the General Regulations of the University.

<b>Module Code</b>	<b>Precondition/Min. pre-condition/Independent</b>
ADF114	KWS104, KGK104, KGK212, KGK232, KGK222, GK242
ADF124	Fine Arts on 200-level
AEO112	
AEO132	
AGR314	AGR224
AGR324	AGR224
AGR424	AGR314 en AGR324
AGR444	AGR414
BEO122	OBS134, OBS144, OBS234, OBS244
BFO112	<b>Four of the following modules:</b> BYB112, BYB132, BYB122, BYB142, BYB152, BYB182 <b>and four of the following modules:</b> BYB212, BYB232, BYB222, BYB242, BYB252, BYB272, BYB262, BYB282
BIK124	BIK114
BIK224	BIK214
BLG124	Min. (BLG114)
BLG144	Min. (BLG114)
CLT122	HRG114, HRG124, HRG214, HRG224
CEM124	CEM114 <b>or</b> CEM104 <b>or</b> CHE104
CEM144	CEM114 <b>or</b> CEM104 <b>or</b> CHE104
CEM214	(CEM114 <b>or</b> CEM104 <b>or</b> CHE104) <b>and</b> (CEM124 <b>or</b> CEM194 <b>or</b> CHE194 <b>or</b> 60% pass in CEM144 <b>and</b> (WTW114 <b>or</b> WTW134)
CEM224	CEM124 <b>or</b> CEM194 <b>or</b> CHE194 <b>or</b> 60% pass in CEM144
CEM232	(CEM114 <b>or</b> CEM104 <b>or</b> CHE104) <b>and</b> (CEM124 <b>or</b> CEM194 <b>or</b> CHE194 <b>or</b> 60% pass in CEM144) <b>and</b> (WTW114 <b>or</b> WTW134)
CEM242	CEM232 <b>and</b> CEM214
CEM314	(CEM232 <b>and</b> CEM214 <b>and</b> CEM242) <b>and</b> WTW124 <b>or</b> WTW144
CEM324	CEM314
CEM334	(CEM232 <b>and</b> CEM214) <b>and</b> WTW124 <b>or</b> WTW144
CEM344	CEM224
DRK214	BLG114 <b>and</b> BLG144
DRK252	BLG114 <b>and</b> BLG144
DRK262	BLG114 <b>and</b> BLG144

DRK224	BLG114 <b>and</b> BLG144
DRK314	BLG114 <b>and</b> BLG144
DRK324	BLG114 <b>and</b> BLG144
DRK334	BLG114 <b>and</b> BLG144
DRK344	BLG114 <b>and</b> BLG144
DTL414	DTL314
DTS114	Grade12 Duits <b>or</b> DTS164 <b>or</b> equivalent module
EAL312	As for ENG332
EAL332	As for ENG332
EAL362	As for ENG332
ECT122	EKN114, EKN124, EKN214, EKN224
EKN114	Grade 12 Mathematic achievement level 4 (50% plus)[ <i>Grade 12 Mathematics (SG) with at least a C symbol</i> ], <b>or</b> WTW154 <b>and</b> WTW164, <b>or</b> STK114 <b>and</b> STK124
EKN124	Grade 12 Mathematic achievement level 4 (50% plus)[ <i>Grade 12 Mathematics (SG) with at least a C symbol</i> ], <b>or</b> WTW154 <b>and</b> WTW164, <b>or</b> STK114 <b>and</b> STK124
EKN214	EKN114, <b>or</b> EBN114 <b>and</b> EBN124 passed with a combined average of 60%
EKN224	EKN124, <b>or</b> EBN114 <b>and</b> EBN124 passed with a combined average of 60%
EKN314	EKN114 <b>and</b> EKN124, <b>or</b> EBN114 <b>and</b> EBN124 passed with a combined average of 60 %
EKN324	EKN114 <b>and</b> EKN124, <b>or</b> EBN114 <b>and</b> EBN124 passed with a combined average of 60 %
ELE142	ELE132
ENG212	<b>Two of the following:</b> ENG112; ENG132; ENG122; ENG142; ENS112; ENS132; ENS122; ENS142; EBE112; EBE122; <b>or one of the following:</b> REN108, ENG108
ENG222	As for ENG212
ENG232	As for ENG212
ENG242	As for ENG212
ENG322	As for ENG312
ENG332	<b>Two of the following:</b> ENG212, ENG232, ENG222, ENG242, ENP212, ENF212 ENF222
ENG342	As for ENG332
ENG362	As for ENG332
ENP322	As for ENG332
ENP352	As for ENG332
FSK114	With (WTW114 <b>or</b> WTW134)
FSK124	Min. (FSK114 <b>or</b> FSK134) <b>and</b> Min. (WTW114 <b>or</b> WTW134)
FSK214	(FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144) <b>and</b> (WTW114 <b>or</b> WTW134)
FSK224	(FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144)
FSK232	(With FSK214)

FSK242	(FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144) <b>and</b> (WTW114 <b>or</b> WTW134)
FSK314	(FSK214 <b>or</b> FSK216) <b>or</b> CEM214 <b>and</b> (WTW114 <b>or</b> WTW134)
FSK324	FSK314 <b>or</b> FSK316
FSK332	(FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144) <b>and</b> (WTW114 <b>or</b> WTW134)
FSK342	FSK332
FSK352	FSK232
FSK362	FSK232
GBT122	GBT112
GBT212	GBT122
GBT222	GBT212
GBT312	GBT222
GBT322	GBT312
GEL122	GES112, GES132, GES122, GES142, GES212, GES232, GES222, GES242
GEL142	Same as for GEL122
GEN272	BLG114
GEN214	This module may only be presented simultaneously with GEN272 or after GEN272 has been passed
GEN224	BLG114
GEN282	This module may only be presented simultaneously with GEN224 or after GEN224 has been passed
GEN314	GEN272 <b>and</b> GEN214
GEN334	GEN214 <b>and</b> GEN224
GEN324	GEN214 <b>and</b> GEN224
GEN344	GEN214 <b>and</b> GEN224
GEO224	GWS114
GEO234	GWS114
GEO334	GEO234
GEO324	GEO224
GIS324	GIS224
GKD314	GKD214
GKD324	GKD214
GKD414	GKD214
GKD424	GKD214
GKD434	GKD214
GKD444	GKD214
GKD461	GKD214

GOF122	GWS114, GEO124, <b>and</b> [GEO214 <b>or</b> GEO234] <b>and</b> [GEO224 <b>or</b> GIS224]
GOF142	Same as for GOF122
KFA124	(AFN112, AFN132, AFN122, AFN142, AFN212, AFN232, AFN222, AFN242) <b>or</b> (AFN114, AFN124, AFN214, AFN224)
LEK214	LEK124
LEK224	LEK124
LEK314	LEK124
LEK324	LEK124, LEK314 <b>or</b> BRS111
LEK414	LEK224 <b>or</b> BRS111
LEK424	LEK124
LEK434	LEK124 <b>and</b> LEK214
LEK444	LEK124
LEK461	LEK124
LOP112	<b>32 credits from the following modules:</b> MBW112, MBW132, KIN112, KIN132, MBW122, MBW142, KIN122 <b>AND 32 credits from the following modules:</b> MBW212, MBW232, KIN214, MBW224, KIN222
MAL112	64 credits from a combination of at least two of the following subjects : Agronomy, Genetics, Soil Science, Horticulture, Animal Science
MDU124	(DTS112, DTS132, DTS122, DTS142, DTS212, DTS232, DTS222, DTS242) <b>or</b> (DTS114, DTS124, DTS214, DTS224)
MFR124	(FRN112, FRN132, FRN122, FRN142, FRN212, FRN232, FRN222, FRN242) <b>or</b> FRN114, FRN124, FRN214, FRN224)
MFZ122	English on 200 level : <b>32 credits from :</b> ENG214 ; ENG224 ; EAL214 ; EAL224 ; ENP214 <b>OR</b> <b>32 credits from :</b> ENG112 ; ENG132 ; ENG122 ; ENG142 ; ENP122 ; ENF122 ; ENS112; ENS122; ENS 132; ENS142; EPE114;EPE124; REN108; ENG108 <b>AND</b> <b>32 credits from the following modules:</b> ENG212,ENG232, ENG222, ENG242, ENP212, ENF212, ENF222
MFZ142	As for MFZ122
MRF112	RIS134, RIS144, RIS236, RIS222, RIS224

MSC112	(PSY112, PSY132, PSY122, PSY142, PSY212, PSY232, PSY222, PSY242) <b>or</b> (PSY112, PSY152, PSY124, PSY212, PSY232, PSY224)
OBS234	Grade 12 Mathematics achievement level 4 (50% plus) [ <i>Grade 12 Mathematics (SG), minimum C symbol</i> ], <b>or</b> STK114 <b>and</b> STK124
OBS364	Grade 12 Mathematics achievement level 4 (50% plus) [ <i>Grade 12 Mathematics (SG), minimum C symbol</i> ], <b>or</b> STK114 <b>and</b> STK124
PLK212	Min. (BLG124) <b>or</b> LWL114
PLK262	Min. (BLG124) <b>or</b> LWL114
PLK214	Min. (BLG124) <b>or</b> LWL114
PLK224	Min. (BLG124) <b>or</b> LWL114
PLK314	BLG124 <b>or</b> LWL114
PLK324	BLG124 <b>or</b> LWL114
PLK334	BLG124 <b>or</b> LWL114
PLK344	BLG124 <b>or</b> LWL114
PNA322	PNA332
REK204	REK114 <b>or</b> REK124 <b>or</b> FIN114 <b>or</b> FIN124
REK308	(REK204 <b>or</b> FIN208) <b>and</b> BRF214
REO122	REK114, REK124, BRF214, REK204
RIS114	(With BRS111)
RIS134	(With BRS111)
RIS154	None
RIS124	RIS114 <b>or</b> RIS134
RIS144	RIS114 <b>or</b> RIS134
RIS164	RIS114 <b>or</b> RIS134 <b>or</b> Grade 12 Information Technology (IT) achievement level 5
RIS214	RIS124 <b>and</b> (with RIS274)
RIS224	RIS214 <b>or</b> RIS234
RIS234	RIS144 <b>and</b> (with RIS274)
RIS274	RIS124 <b>or</b> RIS144
RIS314	RIS214 <b>or</b> RIS234
RIS324	RIS224
RIS334	RIS164 <b>and</b> (RIS214 <b>or</b> RIS234)
RIS344	RIS224
RSO114	GDD112, RLO112, GDD122, RLO122, GDD214, GDD224
RSO124	RSO114
SDH414	(KLE134, KLE144) <b>and</b> (VDS214, VDS224) <b>and</b> (VBW312, VBW324) <b>and</b> ITR224
TMH114	THK114, THK124, THK214, THK224
TMS114	TGN114, TGN124, TTGN214, TGN224
TMT114	TTK114, TTK124, TTK214, TTK224
TRO111	Drama- and Theatre Arts on 200-level
VBL112	BLG114, BLG124, BLG144

VBL132	(BLG114, BLG124, BLG144) <b>AND 32 credits from the following modules:</b> [(DRK214, DRK252, DRK224 and DRK262)] <b>or</b> <b>32 credits from the following modules:</b> [(PLK214, PLK224 and PLK262)] <b>or</b> [(FFG216, FFG226)]
VNS112	CEM114 <b>and</b> (CEM124 <b>or</b> CEM144) <b>as well as</b> (FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144)
VNS112	CEM114 <b>and</b> (CEM124 <b>or</b> CEM144) <b>as well as</b> (FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144)
VNS132	{CEM114 <b>and</b> (CEM124 <b>or</b> CEM144) <b>as well as</b> (FSK114 <b>or</b> FSK134) <b>and</b> (FSK124 <b>or</b> FSK144)} <b>as well as</b> (CEM214, CEM232, CEM224, CEM242) <b>or</b> <b>32 credits from the following modules:</b> (FSK214, FSK232, FSK254, FSK224, FSK242, FSK262)
VSS124	SSM112, SSM132, SSM122, SSM142, SSM212, SSM232, SSM222, SSM242
VWS222	CEM114 <b>en</b> CEM124 <b>of</b> CEM114 <b>en</b> CEM144 <b>of</b> LWL134 <b>en</b> LWL144
VWS232	CEM114 <b>en</b> CEM124 <b>of</b> CEM114 <b>en</b> CEM144 <b>of</b> LWL134 <b>en</b> LWL144
WOF112	<b>48 credits from the following modules:</b> WTW214, WTW236, WTW252, WTW224, WTW244, WTW262, WTW282
WOS112	(WTW114 <b>or</b> WIS134) <b>and</b> (WTW124 <b>of</b> WTW144)
WTW114	Grade 12 Mathematics achievement level 6 (70% plus) or a pass mark of at least 70% in WTW 164
WTW134	Grade 12 Mathematics achievement level 4 (50% plus) [ <i>Grade 12 Mathematics (HG) E or (SG) C</i> ] <b>or</b> WTW164
WTW124	Min. (WTW114)
WTW144	Min. (WTW114) <b>or</b> WTW134
WTW154	Grade 12 in Mathematics Literacy achievement level 6 (70% plus) <b>or</b> Grade 12 Mathematics achievement level 4 (50% plus)
WTW164	Grade 12 in Mathematics Literacy achievement level 6 (70% plus) <b>or</b> Grade 12 Mathematics achievement level 4 (50% plus) <b>or</b> WTW154
WTW214	[WTW114 <b>and</b> Min. (WTW124)]
WTW236	Min. (WTW114) <b>or</b> WTW134
WTW252	Min. (WTW124) <b>or</b> WTW144
WTW224	WTW124
WTW244	WTW124 <b>or</b> WTW144
WTW262	WTW114
WTW282	WTW124 <b>and</b> (Met WTW224)
WTW314	WTW124 <b>and</b> WTW214 <b>and</b> Min. (WTW262)
WTW334	WTW124
WTW354	WTW124 <b>and</b> Min. (WTW262)
WTW374	WTW124 <b>and</b> WTW252

WTW324	WTW214 <b>and</b> Min. (WTW262)
WTW344	Min. (WTW224)
WTW364	WTW252 <b>and</b> Min. (WTW214)
WTW384	WTW244
XBD309	XBK205
XBK205	XBK105, XTK105
XBV201, XBC201	<b>Minimum of 4 credits from:</b> XBB101, XBM101
XBV409, XBE409	XBD309, XBK309, KGK212, KGK232, KGK222, KGK242, KGK214, KGK224
XDR205	XDR105
XGD309	XGK205
XGK205	XGK105
XGV409, XGE409	XGD309
XGY201, XGV201	<b>Minimum of 4 credits from:</b> XGY101, XGV101
XKK204	XKK104
XPA205	XPA105
XPR205	XPR105
XSC205	XSC105
XSD309	XSK205
XSK205	XSK105
XSV409, XSE409	XSD309
XSY201, XSV201	<b>Minimum of 4 credits from:</b> XSX101, XST101, XSR101
XTD309	XTK205
XTK205	XTK105
XTV409, XTM409	XTD309
XTY201	<b>Minimum of 4 credits from:</b> XTW101, XTP101