Faculty of Natural and Agricultural Sciences

RULE BOOK 2017

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UNIVERSITY OF THE FREE STATE
UNIVERSITEIT VAN DIE VRYSTAAT
YUNIVESITHI YA FREISTATA

UFS·UV
NATURAL AND AGRICULTURAL SCIENCES
NATUUR- EN LANDBOUWETENSKAPPE

FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

RULE BOOK 2017

UNIVERSITY OF THE FREE STATE
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Content

Content

1. USING THE RULE BOOK

The Rule Book contains information that will enable students to plan their undergraduate as well as postgraduate studies in the Faculty of Natural and Agricultural Sciences, University of the Free State (UFS). The information can be divided into three sections, namely general administrative information, academic learning programmes and module content.

In the first section students will find:

- Contact details of the academic administration officials in the Dean's office and at the student administration in the George du Toit Administration Building.
- Contact details of the different programme directors where students can get academic advice and assistance when choosing an appropriate learning programme. Consultations outside registration periods (January and July) are only available per appointment.
- Qualification types, the structure and the constitution of the qualifications.
- Core competencies for graduates.

The second section consists of:

- Faculty rules.
- Qualifications offered by the Faculty.
- Learning programmes for different qualifications.
- Transitional Rules.

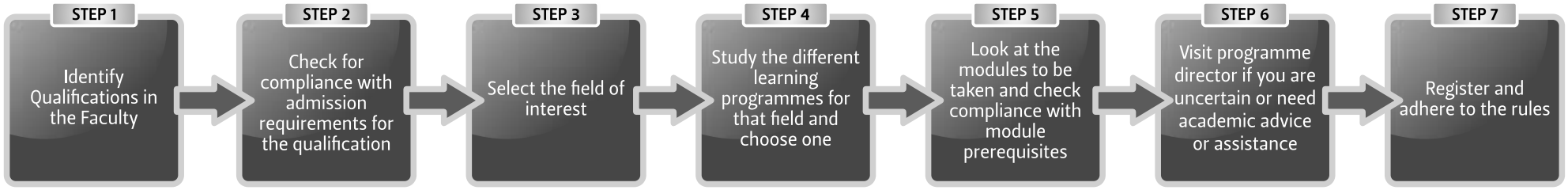
The third section contains module content information:

- Department in which modules are offered.
- Module code, NQF Level, number of credits and CESM categories.
- Prerequisites, module name and contact sessions.
- Content of the module and the method of assessment.

The Rule Book describes students' rights and obligations. The academic programmes must be regarded as part of the agreement between the Faculty and the students. Students registering for a programme in the Faculty must adhere to the General Rules For Undergraduate Qualifications, Postgraduate Diplomas, Bachelor Honours Degrees, Master's Degrees, Doctoral Degrees, Higher Doctorates, Honorary Degrees and the Convocation (General Rules) as well as the Rules of the Faculty of Natural and Agricultural Sciences. Students will only be allowed to register if they comply with all the admission requirements.

It is important to note that even though the outcomes of academic programmes will remain unchanged from the first time of registration, minor changes to learning programmes, modules and module content may occur so that the Faculty of Natural and Agricultural Sciences can ensure the relevance of the degrees. Students must therefore consult the new Rule Book every academic year before registration to ensure alignment with updated curricula, as the Faculty updates the Rule Book to keep abreast of the latest scientific developments as well as national directives. It is the student's **responsibility** to be fully conversant with these rules.

Students need to follow these steps when determining the modules for which they have to register:



2. CONTACT DETAILS: OFFICE OF THE DEAN AND ACADEMIC ADMINISTRATION – BLOEMFONTEIN CAMPUS

POSITION	DEAN	FACULTY MANAGER	LEARNING AND TEACHING MANAGER	NATURAL SCIENCES UNDERGRADUATE AND BACHELOR HONOURS	AGRICULTURE AND BUILDING SCIENCES	MASTER'S AND DOCTORAL DEGREES
NAME	Prof. Danie Vermeulen	Ms Lee-Ann Frazenburg	Ms Elzmarie Oosthuizen	Ms Meriam Jogom Ms Chantelle Joseph	Ms Epefia Maboa Ms Bertha Motloung	Ms Simone Williams
BUILDING	Room 9, Biology Building http://www.ufs.ac.za/natagri	Room 11, Biology Building	Room 10, Biology Building	Glass doors B1/B6, George du Toit Administration Building	Glass doors, A3/Room N143 George du Toit Administration Building	Room 315 / 322A, George du Toit Administration Building
TELEPHONE NR	051 401 2482	051 401 3199	051 401 2934	051 401 9271	051 401 2943	051 401 2943 / 9360
E-MAIL	dean@ufs.ac.za	damonsle@ufs.ac.za	oosthuizenem@ufs.ac.za	Jogommm@ufs.ac.za	maboaemb@ufs.ac.za	bassonmg@ufs.ac.za

3. CONTACT DETAILS

3.1 PROGRAMME DIRECTORS – BLOEMFONTEIN CAMPUS

Programme	Architecture	Agricultural Sciences	Biochemistry	Botany, Plant Breeding, Plant Health Ecology, Plant Pathology, Environmental Rehabilitation	Computer Science & Informatics	Consumer Science	Disaster Management	Environmental Management	Extended and UPP Agricultural Sciences	Forensic	Genetics, Behavioural Genetics, Human Molecular Biology,
Name	Mr Jako Olivier	Dr Antonie Geyer	Dr Frans O'Neill	Dr Botma Visser	Mr Jaco Marais	Prof. Hester Steyn	Ms Olivia Kunguma	Mrs Theresa Soci	Ms Elzmarie Oosthuizen	Dr Karen Ehlers	Mrs Z Murray
Building	Room 26, ARG111, Architecture Building	Room LG 1.129 Agriculture Building	Room 5, Biotechnology Building	Room 134, Biology Building	Room WWG210, Mathematical Sciences Building	Room LG 9.106, Agriculture Building	Room LG3.105 Agriculture Building	Room LG10.103 Agriculture Building	Room 10, Biology Building	Biology Building Room 6	Room 6 Genetics Building
Telephone Nr	051 401 2332	051 401 9053	051 401 7553	051 401 3278	051 401 2929	051 401 2304	051 401 2721	051 401 2863	051 401 2934	051 401 3879	051 401 2776
E-mail	olivierji@ufs.ac.za	geyerac@ufs.ac.za	oneillFH@ufs.ac.za	visserb@ufs.ac.za	maraisj@ufs.ac.za	steynhj@ufs.ac.za	KungumaO@ufs.ac.za	avenantmf@ufs.ac.za	oosthuizenem@ufs.ac.za	ehlersK@ufs.ac.za	MurrayZ@ufs.ac.za

Programme	Geography	Geology	Geohydrology	Mathematical Sciences	Mathematical Statistics and Actuarial Science	Microbiology, Microbial Biotechnology	Physics, Chemistry	Quantity Surveying and Construction Management	Sustainable Agriculture	Urban and Regional Planning	UPP and Extended Natural Sciences	Zoology and Entomology
Name	Ms Eldalize Kruger	Ms Justine Magson	Mrs Amy Allwright	Mr Christiaan Venter	Dr Michael J. von Maltitz	Prof. Koos Albertyn	Dr Johan Venter	Dr Benita Zulch	Dr Johan van Niekerk	Dr Thulisile Mphambukeli	Mr. Pieter Bothma	Dr Candice Jansen van Rensburg
Building	Room GEO 2.2, Geography Building	Room GG 305, Geology Building	Room 21 Institute for Grandwater studies(IGS)	Room WWG 121, Mathematical Sciences Building	Room W102, Mathematical West Block	Room C101, Biotechnology Building	Room CEM 101, Chemistry Building	Room 6, Quantity Surveying and Construction Management	Room 1B 68 Agriculture Building	Room 11, ARG11, Architecture Building	Dean's Office: Natural and Agricultural Sciences	Room D119a, Biology Building
Telephone Nr	051 401 2185	051 401 2373	051 401 3481	051 401 2320	051 401 2609 / 2933	051 401 2223	051 401 3336	051 401 3849	051 401 3765	051 401 3530	083 542 9995	051 401 9357
E-mail	krugere@ufs.ac.za	MarkramJ1@ufs.ac.za	MatthewsAJ@ufs.ac.za	venterc@ufs.ac.za	vmaltitzmj@ufs.ac.za	albertynj@ufs.ac.za	venterja@ufs.ac.za	zulchbg@ufs.ac.za	vNiekerkJA@ufs.ac.za	mphambukelit@ufs.ac.za	BothmaPJ@ufs.ac.za	JvRensC@ufs.ac.za

3.2 ACADEMIC ADMINISTRATION AND PROGRAMME DIRECTORS – QWAQWA CAMPUS

Programme	ASSISTANT DEAN QWAQWA	FACULTY OFFICER: QWAQWA	UPP and Extended Natural Sciences	Biological Sciences	Mathematics and Computer Science and Informatics	Physics, Chemistry
Name	Dr Tom Ashafa	Ms Mpho Leripa	Ms Lea Koenig	Dr Emile Bredenhand	Mr Teboho Lesesa	Mr Richard Ocaya
Building	Natural Science Building	Room 5, Science Building	NAS111, Natural Science Building	Room 2032/R, Science Building	Room LB2014, Library Building	Room 0007, Science Building
Telephone Number	058 718 5134	058 718 5132	058 718 5207	058 718 5322	058 718 5235	058 718 5301
E-mail	ashafaaot@ufs.ac.zz	leripamp@ufs.ac.za	koenigL@ufs.ac.za	bredenhande@ufs.ac.za	lesesaT@ufs.ac.za	ocayaRO@ufs.ac.za

4. ACADEMIC STAFF

	AGRICULTURAL ECONOMICS (051 401 2824)	**ANIMAL, WILDLIFE AND GRASSLAND SCIENCES** (051 401 2211)	**SOIL, CROP AND CLIMATE SCIENCES** (051 401 2212)	**CONSUMER SCIENCE**
Professor	Prof. B.J. Willemse	Prof. G.N. Smit, Prof. H.A. Snyman, Prof. J.B. van Wyk, **Prof. F.W.C. Neser***	***Prof. C.C. du Preez** Prof. L.D. van Rensburg	
Professors Extraordinary		Prof. M.M. Scholtz,		
Associate Professor	Prof. B. Grové		Prof. C.W. van Huyssteen	***Prof. H.J.H. Steyn**
Affiliated Professors			Prof. S. Walker	
Affiliated Associate Professor		Prof. F.B. Bercovitch, Prof. V.P Ducrocq, Prof. J.P.C Greyling	Prof. M. Tsubo, Prof. R. van Antwerpen	
Senior Lecturer	***Dr H. Jordaan (Acting)**	Dr M.D. Fair	Dr J. Allemann, Dr J.H. Barnard , Dr G.M. Ceronio, Dr G.M. Coetzer, Dr A.C. Franke, Dr E. Kotzé, Dr E.van der Watt, Dr J.J. Van Tol	
Lecturers	Dr N. Matthews, Dr A.A. Ogundeji, Mr F.A. Maré, Mr J.I.F. Henning, Mr P. Mokhatla, Mr H.N. van Niekerk	Dr P.J. Malan, Mr F.H. de Witt, Mr O.B. Einkamerer, Dr F. Deacon, Mr M.B Raito, Dr A.Y Chulayo	Ms M.P Aghoghovwia, Ms L. de Wet Mr A.S. Steyn, Dr W.A Tesfhuneg, Mr P.C Tharaga	Dr I. van der Merwe, Dr J.F. Vermaas, Dr N. Cronje
Junior Lecturers	Mr W.A. Lombard, Ms M. Venter	Dr B.B. Janecke, Mr G. Jense van Rensburg		Ms J.S. van Zyl, Ms P.Z. Swart, Ms N. Tinta
Lecturers Units	Ms P. Madende		Ms V.N Mathinya	
Research Associate			Prof. J.C. Pretorius	
Junior Researcher	Dr Y.T. Batha			
Agricultural Engineering	Mr J.J. van Staden			

	ARCHITECTURE (051 401 2332)	**QUANTITY SURVEYING AND CONSTRUCTION MANAGEMENT** (051 401 2248)	**URBAN AND REGIONAL PLANNING** (051 401 2486)	**ENGINEERING SUBJECTS** (051 401 7665)
Professor			Prof. V.J. Nel	
Associate Professor	Prof. J. Noble	***Prof. K. Kajimo-Shakantu**		Prof H.J. Marx
Affiliated Professor			Prof. J.J. Steyn	
Senior Lecturers	Ms M. Bitzer, Ms P.N. Tumubweinee, Ms A. Wagener Mr J. L. du Preez, Dr G. Bosman	Dr B.G. Zulch	***Dr M.M. Campbell**	Mr L.F. Lagrange
Lecturers	Mr J.W. Ras, Mr. J. H. Nel, Mr H. Raubenheimer, Mr Z.G. Wessels	Mr P.M. Oosthuizen, Ms M. Els, Dr T Froise, Ms T Bremer, Ms E. Jacobs, Ms O.R.C. du Preez (contract lecturer)	Dr T Mphambukeli, Mr T Stewart	Mr. B.J. Swart Mr R.J. Homann
Junior Lecturers	***Mr H.B. Pretorius**, Mr J.I. Olivier, Mr D.P.G. van der Merwe	Mr H du Plessis, Mr R Seedat, Me K Tswhane	Mr S Donoon-Stevens Mr KS Mocwagae	Mr N.C. Bernstein
Research Fellow		Prof. J.J.P Verster	Dr YB Mashalaba	

	CHEMISTRY (051 401 9212)	**COMPUTER SCIENCE AND INFORMATICS** (051 401 2754)	**GENETICS** (051 401 2595)	**GEOGRAPHY** (051 401 2255)	**GEOLOGY** (051 401 2515)	**MATHEMATICS AND APPLIED MATHEMATICS** (051 401 2691)	**MATHEMATICAL STATISTICS AND ACTUARIAL SCIENCE** (051 401 2311)
Distinguished Professor							
Senior Professor						***Prof. J.H. Meyer**	Prof. M.S. Finkelstein
Professor	**Prof. A Roodt**		***Prof. J.P. Grobler**				Prof. R. Schall
Adjunct Professor		Prof E. Nel					Dr J.M. van Zyl
Professor Researcher							
Professors Extraordinary							
Professors	Prof. J.C. Swarts, Prof. B.C.B. Bezuidenhoudt, Prof. J. Conradie	***Prof. P.J. Blignaut**					
Associate Professors	**Prof. W. Purcell*** Prof. H.G. Visser, Prof. K von Eschwege	Prof. T. Beelders			Prof. W.P. Colliston, Prof. M. Tredoux,	Prof. T.M. Acho, Prof. T. Vetrik	
Affiliated Professors	Prof. D. Ferreira, Prof. K. Swart, Prof. T. van der Merwe, Prof. S. Otto, Prof. J.M. Botha		Prof. T.E. Turner		Prof. D.E. Miller, Prof. R. Scheepers, Prof. G.Germs		
Affiliated Associate Professors	Prof. G. Fouché, Prof. G.Steyl		Prof. A. Kotzé		Prof. L. Jacobson Prof. R. Schouwstra		
Senior Lecturers	Dr S.L. Bonnet, Dr J.A. Venter, Dr E.H.G. Langner, Dr E. Erasmus	Dr L. de Wet, Dr J.E. Kotze,	Dr K. Ehlers, Dr GM Marx,	***Dr C.H. Barker** Dr J.J le Roux	**Dr F. Roelofse***	Ms J.S. van Niekerk, Dr S. Dorfling	Dr L van der Merwe, ***Mr F.F. Koning,** Dr D. Chikobvu, Dr A. Verster
Senior Lecturer-researcher	Dr A. Brink, Dr M. Schutte-Smith, Dr E. Müller				Dr H.E. Praekelt		
Lecturers	Dr L. Twigge, Dr R. Shago, Dr A. Wilhelm, Ms A-L. Manicum	Ms E.H. Dednam, Dr A.J. Burger, Mr W. Nel, Mr R. Brown, Mr R.C. Fouché. Mr W.S.J. Marais. Mr J-P du Plessis, Mr D. Wium, M T Nkalai	Mr M.F. Maleka, Mr J.A. Viljoen, Ms S-R Schneider, Ms Z. Odendaal, Ms H. Bindeman, Dr E Mwenesongole, Ms L. Wessels	Ms E. Kruger, Ms T.C. Mehlomakhulu, Dr R.T. Massey, Ms A. Pretorius, Mr A.J. van der Walt, Ms L. Rudolph, Ms E. Nkoee	Mr A.I. Odendaal, Dr R. Hansen	Ms A.F. Kleynhans, Mr C. Venter, Mnr M. Fasondini, Mnr B.E de Klerk, Dr A. Kriel, Dr E. Ngounda	Mr A.M. Naudé, Dr M.J. von Maltitz, Mr S. van der Merwe, Ms E. Girmay, Ms W. Oosthuizen, Ms Z. Ludick, Dr M. Sjölander, Mr J. Blomerus, Mr J. Venter
Affiliated Lecturers			Dr D.L. Dalton, Lt.-Col. A. Lucassen				
Junior Lecturers		Ms M.J.F. Botha,		Ms A. Pretorius, Mr AJ. van der Walt	Ms J. Magson, Ms T. Mapholi, Mr R. Rentel, Ms R. Makhadi	Ms A. Swart	
Subject Coordinators	Dr C. Marais, Ms R. Meintjes						
Academic Facilitators	Ms. M du Plessie Ms. B van Tonder Ms. C de Kkerk						

	CHEMISTRY (058 718 5130)	COMPUTER SCIENCE AND INFORMATICS (058-718 5216)	GEOGRAPHY (058-718 5476)	MATHEMATICS AND APPLIED MATHEMATICS (058-718 5204)
QWAQWA-CAMPUS				
Affiliated Professors	Prof. A.S. Luyt			
Senior Lecturers			Dr G. Mukwada, Dr T.W. Okello	
Lecturers	Dr N.F. Molefe, Mr T.A. Tsotetsi, Ms M.A. Malimabe, Mr K. Mpitso	Mr R.M. Alfonsi, ***Dr R.D. Wario,** Mr A.G. Musa, Mr M.B. Mase, Mr G.J. Dollman	Ms M. Naidoo, ***Dr S.A. Adelabu**, Mr P.S. Mahasa, Dr MM Hansen	***Mr S.P. Mbambo,** Mr S. Nkosi
Junior Lecturers	***Mr R.G. Moji**	Mr B. Sebastian, Mr F.M. Radebe, Mr T. Lesesa	Ms N.M. Sekhele	Ms H.C. Faber

	MICROBIAL, BIOCHEMICAL AND FOOD BIOTECHNOLOGY (051 401 2396)		PHYSICS (051 401 2321)	PLANT SCIENCES (051 401 2514)			ZOOLOGY AND ENTOMOLOGY (051 401 2427)
	Division of Microbiology and Biochemistry	**Division of Food Science**		**Division of Plant Pathology**	**Division of Botany**	**Division of Plant Breeding**	
Senior Professor			Prof. H.C. Swart, Prof. P.J. Meintjes				
Professor	***Prof. M.S. Smit,** Prof.J.C.du Preez, Prof.J.Albertyn, Prof. R.R. Bragg, Prof.S.G.Kilian, Prof. E. van Heerden, Prof. B.C. Viljoen, Prof. C.H. Pohl-Albertyn	Prof.G.Osthoff	, ***Prof. J.J. Terblans,** Prof. W.D. Roos	Prof. N.W. McLaren Prof. Z.A. Pretorius Prof. W.J. Swart		Prof. M.T. Labuschagne	***Prof. L. Basson,** Prof. S. v.d. M. Louw
Professors Extraordinary							Prof. G.L. Prinsloo, Prof. L.J. Fourie
Associate Professors		Prof. A. Hugo, Prof. C.J. Hugo	Prof. M.J.H. Hoffman Prof. R.E. Kroon			***Prof. L. Herselman**	Prof. L.L. van As
Affiliated Professors	Prof. M.F. DeFlaun			Prof. P. Crous			
Affiliated Associate Professors	Prof. E.J. Lodolo		Prof. K.T. Hillie			Prof. R. Prins, Prof. J.B.J. van Rensburg	
Senior Lecturers	Dr H.G. O'Neill, Dr F.H. O'Neilll, Dr D. Opperman, Dr O.M. Sebolai	Dr J. Myburgh, Dr M. de Wit	Dr R.A. Harris	Dr W.H.P. Boshoff, Dr G.J. Marais	Dr G.P. Potgieter, Dr B. Visser	Dr A. van Biljon, Dr N.G. Lebaka, Dr S. Ramburan	Dr C.R. Haddad, Dr M. Ndlovu
Lecturers	Dr C.W. Swart-Pistor, Dr C.E. Boucher,	Dr C. Bothma	Dr B. van Soelen, Dr A Odendaal		Dr M. Cawood, Dr M. Jackson, Dr L. Joubert, Dr L. Mohase	Dr A. Minnaar-Ontong, Dr R. van der Merwe	Ms E.M.S.P. van Dalen, Mr H.J.B. Butler, Dr C. Jansen van Rensburg, Dr S Brink
Junior Lecturers	Mr W.P.D. Schabort				Ms M. Westcott		Mr V.R. Swart, Ms L. Heyns, Mr D Fourie
Research Associates					Prof P.J. du Preez, Prof. J.U. Grobbelaar, Dr S. Ramburan, Dr L. Rossouw, Dr A.M. Venter, Prof H.J.T. Venter		
Senior Researcher	Dr. G. Kemp		Dr E Coetsee-Hugo		Prof. L. Scott		
Researcher	Ms L. Steyn		Dr M Duvenhage				

QWAQWA-CAMPUS	MICROBIAL, BIOCHEMICAL AND FOOD BIOTECHNOLOGY		PHYSICS (058 718 5302)	PLANT SCIENCES (058 718 5332)			ZOOLOGY AND ENTOMOLOGY (058 7185324)
	Division of Microbiology and Biochemistry	Division of Food Science		Plant Pathology	Botany	Plant Breeding	
Professor			Prof. B.F. Dejene				
Senior Lecturers			Dr L.F. Koao		Dr A.O.T. Ashafa, Dr L.V. Komoreng, Dr S-L. Steenhuisen		Dr A. le Roux, Dr P. Voua Otomo
Lecturers			***Dr K.G. Tshabalala,** Mr R.O. Ocaya, Mr S.J. Motloung		***Dr R. Ngara,** Mr T.R. Pitso		***Dr P.M. Leeto,** Dr J. van As, Dr E. Bredenhand
Junior Lecturers							Ms M. van As
Associate Researchers					Dr A.O. Aiyegoro, Prof. R.O. Moffett		
Affiliated Researcher					Prof. D.A. Akinpelu		

	DiMTEC (051 401 2721)	CENTRE FOR MICROSCOPY (051 401 2264)	CENTRE FOR ENVIRONMENTAL MANAGEMENT (051 401 2863)	CENTRE FOR SUSTAINABLE AGRICULTURE, RURAL DEVELOPMENT AND EXTENSION (051 401 2163)	INSTITUTE FOR GROUNDWATER STUDIES (051 401 2175)
Director			***Ms M.F. Avenant (acting)**	***Dr J.A. van Niekerk**	***Mr E Lukas (acting)**
Professor	Prof. R Bragg, Dr D Sakulski				Prof. PAL le Roux
Associate Professor	Prof. B. Grové, ***Prof A. Jordaan**	***Prof. P.W.J. van Wyk**			Prof. A Atangana
Affiliated Professors			Prof. A. Turton		
Affiliated Associate Professors					Prof. K.T. Witthüser
Affiliated Researchers	Mr W.F Ellis				Prof. JF Botha, Ms YL Kotze
Senior Lecturer	Dr L. Terblanche, Dr D Chikobvu, Dr C Barker, Dr A.O Ogundeji			Mr JW Swanepoel, Me JH Ngwenya	Dr FD Fourie
Lecturers	Mr J. Belle, Ms A Ncube, Ms O Kunguma, Mr C Dreyer, Ms L de Wet. Dr H Booysen, Dr M. Schutte-Smith, Dr E. du Plessis, Mr S Carstens. Mr A Kesten		Dr F.T. Buschke, Dr O.O. Ololade, Ms S. Esterhuyse, Ms M. F. Avenant		Mr SS de Lange, Mr PH Lourens
Junior Lecturers	Ms L Nogabe Ms A van Rooyen Mr M. Procter, Mr T. Mudamburi				Ms A Allwright
	Ms O. Kunguma, Ms A. Ncube, Ms J. Belle, Mr A.O. Ogundeji				
Lecturers/Researchers					Dr M Gomo
Postdoctorate Researchers					Dr A. Atangana
Research Associate			Dr N.L. Avenant, Dr H. Bezuidenhout, Dr J. Brink, Dr D. Codron, Dr N.B. Collins, Mr P. Grundlingh, Dr J.R. Henschel, Dr F. Kruger Dr S. Mitchell, Prof. M.T. Seaman, Dr D.F. Toerien, Dr A. Weaver Dr P.C. Zietsman	Prof. A.E. Nesumvuni, Dr. B.D. Nkosi, Dr. E.M. Zwane, Dr. P Tirivanhu, Dr W Ntshangase	
Chief Scientist					

*** Academic Departmental Head**

5. REVISED QUALIFICATION TYPES AND DEGREE CODES

Higher Education Qualifications Sub-Framework (HEQSF) contains eleven qualification types mapped on to the six levels of the National Qualifications Framework (NQF) offered by higher education institutions. Some levels have more than one qualification type. The following qualification types are presented at the Faculty of Natural and Agricultural Sciences, UFS:

UNDERGRADUATE QUALIFICATIONS				POSTGRADUATE QUALIFICATIONS			
Type of qualification	**Exit level**	**Minimum total credits**	**Credits and level**	**Type of qualification**	**Exit Level**	**Minimum total credits**	**Credits and level**
Advanced Diploma	7	120	Minimum 120 credits at Level 7	Postgraduate Diploma	8	120	Minimum 120 credits at Level 8
Bachelor's Degree	7	360	Minimum 120 credits at Level 7	Bachelor Honours Degree	8	120	Minimum 120 credits at Level 8
Professional Bachelor's Degree	8	480	Minimum 120 credits at Level 8	Master's Degree	9	180	Minimum 180 credits at Level 9
				Doctoral Degree	10	360	Minimum 360 credits at Level 10

Each of these qualifications are registered with SAQA and DHET and are linked to a unique degree code on the Programme and Qualification Mix (PQM) of the University of the Free State.

Table 1: Degree Codes

First	**Second**				**Third**				**Fifth**
Faculty	Exit level qualifier				Faculty specific				
4 - Natural Sciences 5 – Agriculture Science	1-4 Undergraduate		5-9 Postgraduate		**Natural Sciences**				Degrees with designator 0 = old and 1 = reviewed.
	*Certificates (Higher/ Advanced)	1	*Honours degree	6	Biological Sciences	1	Computer Science and Informatics	6	
	*Diplomas (360-credits/240-credits/ Advanced)	2	*Master's degree (Course work/ Professional)	7	Mathematical Sciences	2	Consumer Science	7	
	*B-degree (360-credit)	3	*Master's degree (Dissertation)	8	Chemical and Physical Sciences	3	Agricultural Sciences	8	
	*B-degree (480-credit)	4	*Doctorate (Research)	9	Geosciences	4	Building Sciences	9	
	*Postgraduate Diploma	5	*Doctorate (Professional)	0	Agricultural Economics	5	Other	0	

6. CONSTITUTION OF QUALIFICATIONS AND PROGRAMME CODES

The majority of the Bachelor's Degrees on offer at the Faculty of Natural and Agricultural Sciences consists of three years of study. The first year of study provides students with the opportunity to develop a broad scientific foundation and students are normally required to complete eight modules (at least 120 credits per year, four modules per semester). These modules serve as the foundation for specialisation in the subsequent years. In the second year of study, majors are selected (at NQF Level 6), supplemented with modules from supportive disciplines. Learning programmes provide students with the opportunity to select modules from related supportive disciplines to ensure purposeful qualifications. In the third year of study, students must specialise in two major fields of study, for example Physics and Chemistry, or Microbiology and Biochemistry, or Genetics and Botany (at NQF Exit Level 7), with a total of at least 60 credits completed for each major. Furthermore, students may also be required to complete other modules to ensure that they have the necessary knowledge and literacy required to function in a demanding academic environment. The diagram below indicates how degrees are constituted and how one qualification provides entry into a qualification at the next NQF Level.

The Bachelor's Degree (B) makes provision for three fields of study, namely:	The Bachelor of Science (BSc) and the Bachelor of Science Honours Degree make provision for seven fields of study, namely:		The Bachelor of Science in Agricultural BSc (Agriculture) Degree makes provision for four fields of study, namely:
• Architecture • Agricultural Sciences • Consumer Sciences • Computer Information Systems	• Biological Sciences • Building Sciences • Chemical and Physical Sciences • Consumer Science	• Geosciences • Computer Science and Informatics • Mathematical Sciences	• Animal, Grassland and Wildlife Sciences • Food Science • Plant Breeding and Plant Pathology • Soil, Crop and Climate Sciences

In each field of study different modules can be combined as majors. The different combinations of majors, minors and supportive modules are referred to as learning programmes. The combination of modules are known as the curriculum for the specific learning programme and must comply with the minimum credits as indicated under the heading *5. Type of Qualifications*. Each learning programme has a unique Programme Code, which refers to a qualification on the UFS PQM, accredited by the CHE, and registered with SAQA and DHET and link to a specific Degree Code.

Table 2: Programme codes

First Digit	**Second Digit**	**Third Digit**					
Campus	**Faculty**	**Exit level qualifier**					
		1-4 Undergraduate			**5-9 Postgraduate**		
B – Bloemfontein Q – Qwaqwa	4 – Natural Sciences 5 – Agricultural Science	Certificates (Higher/ Advanced)	1	Postgraduate Diploma	5	Master's Degree (Dissertation)	8
		Diplomas (360-credits/240-credits/ Advanced)	2	Honours Degree	6	Doctorate (Research)	9
		B-degree (360-credit)	3	Master's Degree (Course work/ Professional)	7	Doctorate (Professional)	0
		B-degree (480-credit)	4				

Fourth Digit								**Fifth Digit**	
Natural Sciences fields of study				**Agriculture fields of study**				**Detail qualifiers**	
Biological Sciences	1	Computer Science and Informatics	6	Animal, Grassland and Wildlife Sciences	1	Agricultural Economics	5	All degrees except the ones listed below are zero (0)	0
Mathematical Sciences	2	Consumer Science	7	Food Science	2	Agricultural Management	6	Selection programmes with different admission requirements	1
Chemical and Physical Sciences	3	Agricultural Sciences	8	Plant Breeding and Plant Pathology	3	Agricultural Extension	7		
Geosciences	4	Building Sciences	9	Soil, Crop and Climate Sciences	4				
Agricultural Economics	5	Other	0						

7. ACADEMIC PLAN CODES

The coding system links to another level, the Academic Plan Code. This code consist of eight digits. The first four digits respond directly with the first four digits of the Degree Code. The last digits link to the different degrees as follows:

Advanced Diploma BC4200xx Advanced Diploma Agric. BC5200XX Bachelor BC4301xx Bachelor of Science BC43xxyy (xx and yy represent the TWO different majors	Bachelor of Science Agriculture BC54xxyy Bachelor Honours BC4600xx Bachelor of Science Honours BC5600xx Postgraduate Diploma BC4500xx Postgraduate Diploma Agric. BC5500xx	Master's by dissertation BC4802xx Master's by course work BC4703xx Master of Science by dissertation BC4800xx Master of Science by course work BC4701xx Master of Agricultural Sciences BC5800xx Master of Agricultural Sciences Structured BC5702xx	Doctor BC4902xx Doctor of Philosophy BC4900xx Doctor of Science BC4901xx
Bachelor of Science Extended Degree		**Bachelor of Agriculture Extended Degree**	**Higher certificate in NAS**
Mathematics and Chemistry BC4300E2	Mathematics and Finances BC5480E1	Agriculture Extended Degree BC5300E1	With specialisation in Mathematics and Chemistry BC410001 HCert in Agriculture BC510001

The first digits that indicate the degree can include one of the two digits representing a major. The subsequent digits represent either the selected two majors, or the major and minor in the case of the Bachelor of Science Agriculture degrees, or a single speciality area in the case of Bachelor Honours, Master's and Doctoral degrees. Each subject is identified by a two-digit code as provided in the table below.

Table 3: Identification codes of different disciplines

Actuarial Science	10	Behavioural Genetics	18	Engineering Science	26	Geohydrology	34	Plant Pathology	42
Agricultural Economics	11	Biochemistry	19	Entomology	27	Geology	35	Quantity Surveying	43
Agrometeorology	12	Botany	20	Environmental Geology	28	Grassland Science	36	Soil Science	44
Agronomy	13	Chemistry	21	Food Science	29	Mathematical Statistics	37	Spatial Planning	45
Architecture	14	Computer Science and Informatics	22	Forensic Science	30	Mathematics	38	Statistics	46
Animal Science	15	Consumer Science	23	Genetics	31	Microbiology	39	Sustainable Agriculture	47
Applied Mathematics	16	Construction Management	24	Geochemistry	32	Physics	40	Urban and Regional Planning	48
Astrophysics / Astronomy	17	Disaster Management	25	Geography	33	Plant Breeding	41	Zoology	49

Table 4: Identification codes of specialisation fields

Alternative combination	00	Economics	58	Forensic Genetics	67	Limnology	76	Property Sciences	85
Program without two majors	1-9	Environmental Geography	59	Forensic Sciences Interdiciplinary	68	Microbiotechnology	77	Psychology	86
Agricultural Engineering	51	Environmental Management	60	Geographical Information Systems	69	Mineral Resource Management	78	Risk analysis	87
Agricultural Management	52	Environmental Rehabilitation	61	Human Molecular Biology	70	Nano Sciences	79	Soil Science Interdisciplinary	88
Agrometeorology Interdisciplinary	53	Environmental Science	62	Human Settlements	71	Physiology	80	Wildlife	89
Agronomy Interdisciplinary	54	Facilities Management	63	Irrigation Management	72	Plant Breeding Interdisciplinary	81	Wildlife Management	90
Business Management	55	Finance	64	Irrigation Sciences	73	Plant Health Ecology	82	Integrated Water Management	91
Computer Information Systems	56	Forensic Chemistry	65	Land and Property Development Management	74	Plant Pathology	83	Tourism	92
Ecology	57	Forensic Entomology	66	Life Sciences	75	Polymer Sciences	84		

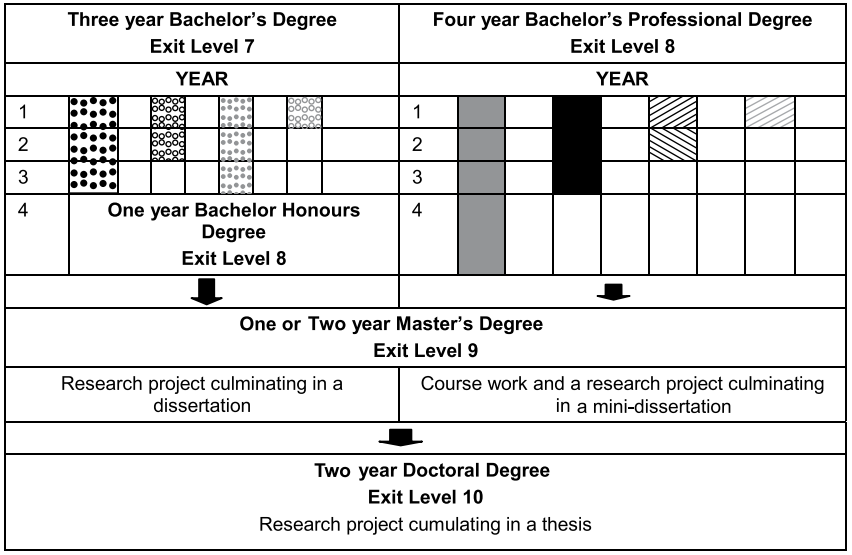
The curriculum for the different learning programmes consists of three types of modules, namely compulsory, elective and foundational modules. Compulsory modules must be taken by all the students in the learning programme, elective modules provide students with the opportunity to select modules of interest, and required modules must be followed when a student does not comply with the requirements. The curriculum for the different learning programmes is available below, starting on p 47.

The curricula for the different learning programmes usually consist of three types of modules, namely compulsory, elective and required modules. Compulsory modules must be taken by all the students in the learning programme; elective modules provide students with the opportunity to select modules of interest; and required modules must be followed when a student does not comply with certain requirements. The curricula for the different learning programmes are set out below, starting on p.47.

8. STRUCTURE OF QUALIFICATIONS

COMPOSITION OF THREE AND FOUR YEAR DEGREES

The different blocks represent different modules; if the blocks have the same colour they represent the same discipline.



MODULE CODES

Undergraduate and postgraduate modules may be presented as semester or year modules. The credits awarded to every module give an indication of the teaching and learning time and volume of work. One module credit equals 10 notional hours which include hours spent in the lecture room and on independent work and study.

A module is indicated with the code ABCDwxyz and this code represents the following:

ABCD	Indicates the discipline
w	A numeral stating the study year, for example first year = 1
x	Indicate NQF Level
y	An odd number indicates the first semester and an even number indicates the second semester. The numerals 0 indicates a year module
z	The number multiplied by four indicate the number of credits

For example, CROP3754 indicates that it is an Agronomy module (CROP), presented during the third academic year at NQF Exit Level 7 (3), that the module is presented during the first semester (odd number 5), and represents 4x4 = 16 teaching credits (4).

The numerical code for Bachelor Honours, Master's and Doctorate modules will start with a 6, 7 for structured or 8 research and 9. If the last number is 0 it indicate that the modules have either more than 36 credits or the credits are not a multiple of four.

9. CORE COMPETENCIES FOR GRADUATES

A Bachelor's or Bachelor of Science Graduate is:

Academically excellent	Adjusted to cultural diversity	An active global citizen
This entails that the student:		
• Attains a strong sense of academic integrity and scholarship. • Becomes self-motivated and self-regulated, with an ability to continuously direct his/her own learning. • Adapts to a changing environment and becomes committed to lifelong learning. • Accepts critical thinking and decision-making as part of the learning process. • Attains an appropriate level of achievement in language proficiency, reading and writing, problem solving, communication and broad research activities. • Becomes competent in information and communication technologies. • Develops cognitive and analytical skills that are flexible and transferable through various learning experiences.	• Acquires an understanding of the social and cultural diversity in our country. • Learns to value and respect different cultures.	• Acquires an appreciation of the global perspective on his/her chosen discipline(s). • Learns to accept social responsibilities. • Works effectively both as a team leader and a team member. • Takes cognisance of existing social, economic, political and environmental issues. • Encourages the improvement and sustainability of the environment. • Respects human rights, attaches importance to equity and values, ethics and ethical standards.

Knowledge	Skills	Values and attitudes
A B or BSc Graduate has the following:		
• Integrated, comprehensive knowledge of the main areas within the two major disciplines of choice. This includes an understanding of, and an ability to apply and evaluate, the key terms, concepts, facts, principles, rules and their theories. • Detailed knowledge of at least one area of specialisation and how that knowledge relates to other fields, disciplines or practices. • An understanding of contested knowledge and an ability to evaluate types of knowledge and explanations typical of the discipline.	• An understanding of a range of enquiry methods in a field, discipline or practice, and their suitability to specific investigations. • An ability to apply a range of methods to resolve problems or introduce change within a practice. • An ability to identify, analyse, critically reflect on and address complex problems, applying evidence-based solutions and theory-driven arguments. • An ability to make decisions and act ethically and professionally, and the ability to justify these decisions and actions drawing on appropriate ethical values and approaches within a supported environment. • An ability to manage processes in unfamiliar and variable contexts, recognising that problem solving is context- and system-bound, and does not occur in isolation.	• An ability to accurately identify, evaluate and address own learning needs in a self-directed manner, and facilitate collaborative learning processes. • An ability to take full responsibility for own work, decision making and use of resources and limited accountability for the decisions and actions of others in varied or ill-defined contexts. • An ability to develop appropriate processes of information gathering for a given context or use. • An ability to independently validate sources of information, and evaluate and manage it. • An ability to develop and communicate own ideas and opinions in well-structured arguments.

10. FACULTY RULES

NAS1 – General Rules

The **General Rules** of the UFS are set out in General Rules for Undergraduate Qualifications, Postgraduate Diplomas, Bachelor Honours Degrees, Master's Degrees, Doctoral Degrees, Higher Doctorates, Honorary Degrees and the Convocation for each year in the Rule Book of the University, and contains the following relevant information:

GENERAL RULES FOR UNDERGRADUATE (NQF Exit Level 7 or 8)			
A1 – General Rules	A2 – Applying for admission	A3 – Admission or re-admission to the University and to an academic qualification	A4 – Submission of documentation required to register as a student
A5 – Duration of study and compiling a curriculum	A6 – Student registration and re-registration	A7 – Switching qualifications and/or modules and/or instructional modes and/or migrating to another university campus/centre	A8 – Credit accumulation and credit transfer
A9 – Assessment rules	A10 – Qualification with distinction	A11 – Qualification certificates, Dean's Medals and Senate Medals	A12 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables
A13 – Requests on the basis of exceptional circumstances	A14 – Discipline	A15 – Financial support	A16 – Module and venue timetable and examination timetable
A17 – Residence in campus accommodation	A18 – Fees payable	A19 – Information communication and information technology	

GENERAL RULES FOR POSTGRADUATE DIPLOMAS (NQF EXIT LEVEL 8)			
A20 – General Rules	A21 – Applying for admission	A22 – Admission or readmission to the university and to an academic qualification	A23 – Submission of documentation required to register as a student
A24 – Duration of study and compiling a curriculum	A25 – Student registration and re-registration	A26 – Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre	A27 – Credit accumulation and credit transfer
A28 – Assessment rules	A29 – Qualification with distinction	A30 – Qualification certificates	A31 – Intellectual property
A32 – Publication of a research essay	A33 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables	A34 – Requests on the basis of exceptional circumstances	A35 – Discipline
A36 – Financial support	A37 – Module and venue timetable and examination timetable	A38 – Residence in campus accommodation	A39 – Fees payable
A40 – Information communication and information technology			

GENERAL RULES FOR BACHELOR HONOURS DEGREES (NQF Exit Level 8)			
A45 – General Rules	A46 – Applying for admission	A47 – Admission or readmission to the university and to a Bachelor Honours Degree	A48 – Submission of documentation required to register as a student
A49 – Duration of study and compiling a curriculum	A50 – Student registration and re-registration	A51 – Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre	A52 – Credit accumulation and credit transfer
A53 – Assessment rules	A54 – Qualification with distinction	A55 – Qualification certificates, Dean's Medals and Senate Medals	A56 - Intellectual property
A57 – Publication of a research report	A58 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables	A59 – Requests on the basis of exceptional circumstances	A60 – Discipline
A61 – Financial support	A62 – Module and venue timetable and examination timetable	A63 – Residence in campus accommodation	A64 - Fees payable
A65 – Information communication and information technology			

GENERAL RULES FOR MASTER'S DEGREES (NQF Exit Level 9)			
A70 – General Rules	A71 – Applying for admission	A72 – Admission or readmission to the university and to a Master's degree	A73 – Submission of documentation required to register as a student
A74 – Mode of presentation	A75 – Requirements in respect of a Master's Degree research dissertation or publishable, interrelated manuscripts/published articles or a coursework Master's Degree mini-dissertation	A76 – Duration of study and compiling a curriculum	A77 – Student registration and re-registration
A78 – Registration of research titles and modifying a research title	A79 – Supervisor(s) and co-supervisor(s)	A80 – Examiners and moderators	A81 – Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre
A82 – Credit accumulation and credit transfer	A83 – Assessment rules	A84 – Qualification with distinction	A85 – Qualification certificates, Dean's Medals and Senate Medals
A86 – Intellectual property	A87 – Publication of a Master's degree research dissertation or a coursework Master's degree dissertation	A88 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables	A89 – Requests on the basis of exceptional circumstances
A90 – Discipline	A91 – Financial support	A92 – Module and venue timetable and examination timetable	A93 – Residence in campus accommodation
A94 – Fees payable	A95 – Information communication and information technology		

GENERAL RULES FOR DOCTORAL DEGREES (NQF Exit Level 10)			
A100 – General Rules	A101 – Applying for admission	A102 – Admission or readmission to the university and to a Doctoral Degree	A103 – Submission of documentation required to register as a student
A104 – Mode of presentation	A105 – Requirements in respect of a thesis, publishable, interrelated manuscripts/published articles or mini-thesis	A106 – Duration of study and compiling a curriculum	A107 – Student registration and re-registration
A108 – Registration of research title and modifying a research title	A109 – Promoter and co-promoter(s)	A110 – Examiners	A111 – Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre
A112 – Credit accumulation and credit transfer	A113 – Assessment rules	A114 – Qualification with distinction	A115 – Qualification certificates
A116 – Intellectual property	A117 – Publication of a thesis	A118 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables	A119 – Requests on the basis of exceptional circumstances
A120 – Discipline	A121 – Financial support	A122 – Residence in campus accommodation	A123 – Fees payable
A124 – Information communication and information technology			

GENERAL RULES FOR HIGHER DOCTORATES (NQF Exit Level 10)			
A130 – General Rules	A131 – Applying for admission	A132 – Admission to the Higher Doctorate Degree	A133 – Student registration and re-registration
A134 – Mentor	A135 – Examiners	A136 – Requirements to be met when submitting scientific publications	A137 – Assessment reports
A138 – Pass requirements and qualification with distinction	A139 – Plagiarism	A140 – Qualification certificates	A141 – Fees payable

GENERAL RULES FOR HONORARY DEGREES			
A145 – Honorary-degree proposals	R146 – Qualification certificates		

The General Rules of the UFS apply to this Faculty *mutatis mutandis* (A1 to A147). These **Rules of the UFS** are, with the necessary adjustments, applicable to all the qualifications that are awarded by the Faculty of Natural and Agricultural Sciences. Rules of the **Faculty of Natural and Agricultural Sciences (NAS),** which specifically apply to the degree and other programmes presented in the Faculty, are equally important and relevant. Students must consult the new Rule Book **every academic year before registration** to ensure alignment with updated curricula, as the Faculty updates the Rule Book to keep abreast of the latest scientific developments. It is the student's **responsibility** to be conversant with these rules and the following rules are important.

NAS2 and NAS3 – Entrance and progress requirements

Undergraduate programmes

The Faculty offers various undergraduate qualifications in different categories including Diplomas, Access and Extended Curriculum Programmes and Bachelor's Degrees. The following fields of study are covered in each of the categories at the Bloemfontein campus and on the Qwaqwa campus where indicated or where indicated on the Qwaqwa campus only:

- **Diplomas**: Advanced Diploma in Sustainable Agriculture in Rural Development, Advance Diploma in Actuarial Sciences
- **Access and Extended Curriculum Programmes:** University Preparation Programme: Agricultural Sciences for BAgric; University Preparation Programme: Natural and Agricultural Sciences(Mathematics and Chemistry) for BSc, Access: Natural and Agricultural Sciences (Mathematics and Chemistry) for BSc (Qwaqwa), Bachelor of Agriculture Extended Programme, Bachelor of Agricultural Sciences Extended Programme, Bachelor of Science Extended Programme (Mathematics and Chemistry) (Qwaqwa), Bachelor of Science Extended Programme (Mathematics and Finances).
- **Bachelor's Degrees:**
  - **Bachelor of:**
    - Architecture; Agriculture (Agricultural Management, Animal Production Management, Crop Production Management, Irrigation Management, Mixed Farming Management, Wildlife Management); Agricultural Economics, Computer Information Systems, Consumer Sciences(General and Food);
  - **Bachelor of Science majoring in:**
    - Actuarial Sciences, Agricultural Economics, Microbiology and Chemistry, Biochemistry and Chemistry
    - Biological Sciences: Behavioural Genetics, Biochemistry and Botany, Biochemistry and Entomology, Biochemistry and Food Science, Biochemistry and Genetics, Biochemistry and Microbiology, Biochemistry and Physiology, Biochemistry and Statistics, Biochemistry and Zoology, Botany and Entomology, Botany and Genetics, Botany and Life Sciences (Qwaqwa only), Botany and Microbiology, Botany and Plant Breeding, Botany and Plant Pathology, Botany and Zoology, Environmental Rehabilitation, Entomology and Genetics, Entomology and Life Sciences (Qwaqwa only), Entomology and Microbiology, Entomology and Zoology, Forensic Sciences, Genetics and Microbiology, Genetics and Zoology, Life Sciences (Qwaqwa only), Microbiology and Food Science, Microbiology and Statistics, Microbiology and Zoology, Plant Health Ecology, Zoology and Life Sciences (Qwaqwa only).
    - Building Sciences: Construction Management(residential), Quantity Surveying(residential), Construction Management (Distance learning), Quantity Surveying (Open learning)
    - Chemical and Physical Sciences: Chemistry and Biochemistry, Chemistry and Botany (Qwaqwa), Chemistry and Life Sciences (Qwaqwa only), Chemistry and Food Science, Chemistry and Microbiology, Chemistry and Physics (Qwaqwa), Physics and Agrometeorology, Physics and Astrophysics, Physics and Engineering Subjects.
    - Consumer Science
    - Geosciences: Environmental Geography (Qwaqwa only Geographical Information Systems, Geography and Agrometeorology, Geography and Environmental Sciences, Geography and Life Sciences (Qwaqwa only), Geography and Statistics, Geography and Tourism (Qwaqwa only), Environmental Geology Geochemistry, Geology and Chemistry, Geology and Geography, Geology and Physics, Geology specialisation.
    - Information Technology: Computer Science and Business Management. Computer Science and Chemistry (Qwaqwa), Computer Science and Management (Qwaqwa only), Computer Science and Mathematical Statistics, Computer Science and Mathematics, Computer Science and Physics (Qwaqwa).
    - Mathematical Sciences: Mathematical Statistics and Statistical Sciences: Climate Science, Econometrics, Investment Sciences, Psychometrics, Statistics and Accounting, Statistics and Economics, Statistics and Psychology Mathematics: Mathematics and Applied Mathematics, Mathematics and Chemistry, Mathematics and Finances, Mathematics and Mathematical Statistics, Mathematics and Physics.
  - **Bachelor of Science in Agriculture majoring in:**
    - Agrometeorology, Agronomy, Animal Sciences, Food Science, Grassland Sciences, Plant Breeding, Plant Pathology, Soil Sciences.

NAS2.1 – Faculty undergraduate admission requirements

In addition to the requirements contained in General Rules(2017) A1-A19, a student has to comply with the additional Faculty requirements:

a) Students should apply for admission to the programmes listed above on the prescribed form before the closing date.

b) The following Bachelor's and Bachelor of Science Degrees require selection: Architecture, Construction Management, Forensic Sciences, Geology, Physics and Engineering Sciences and Quantity Surveying.

c) Applications to these programmes, on the prescribed form, must reach Director: Student Academic Services on or before 31 July the year before intended registration for Architecture, Quantity Surveying and Construction Management, or 30 September for the rest, the year before the intended registration. Students will be notified of preliminarily selection before the end of November, but the final selection will only be confirmed after the National Senior Certificate (NSC) or National Certificate (Vocational) (NCV) examination results are available.

d) Admission depends on Admission Point (AP) or the M Scores (MS) as well as the performance in Mathematics (M), Physical Science (PS) and Life Sciences (LS). The AP or the MS are calculated as indicated in Table 3:

e) The admission requirements in Table 4 below are a broad indication for entrance to the Faculty of Natural and Agricultural Sciences and applicable to prospective students. It is important to note that some programmes have higher requirements or the requirements are adjusted as indicated in Table 5.

Table 3: Values to be used for all individual or all individual NSC or NCV subjects completed to calculate AP and M Scores

Calculation of the AP with regard to students who passed Grade 12 in 2008 onwards:

NSC or NCV Performance level for subjects	UFS Admission Point (AP)	NSC or NCV Performance level for subjects	UFS Admission Point (AP)
7 (90% – 100%)	8	4 (50% - 59%)	4
7 (80% – 89%)	7	3 (40% – 49%)	3
6 (70% – 79%)	6	2 (30% – 39%)	2
5 (60% – 69%)	5		

If the performance level in Life Orientation is 5 or above, it contribute 1 to the AP Score. If students include more than the required 7 subjects, select the best 6 to calculate the AP Score.

Calculation of the M Score with regard to students who passed Grade 12 prior to 2008:

M Scores are calculated using the symbols of the six (6) best matriculation subjects (regardless of whether they are higher or standard grade) passed in one examination.

Symbol	A	B	C	D	E	F
HG	8	7	6	5	4	3
SG	6	5	4	3	2	1

Table 4: Broad Admission requirements (These requirements must be read with Table 5)

The following is applicable to students who matriculated before or during 2007:	The following is applicable to students who completed the National Senior Certificate during or after 2008:
(i) Senior certificate with matriculation endorsement (matriculation exemption) or an equivalent qualification. (ii) A minimum MS of 30. (iii) HG = E or SG = C in an official tuition language. (iv) Mathematics HG = D or SG = B. Alternatively at least a pass mark of 60% in MATD1564 or MATD1534 or MATM1584. If STSM1614 or MATM1614 is included in the learning programme at least a level 6 (70%) and at least a level 7 (80%) is respectively required for Mathematics. (v) Both Biology and Physical Science will be required. **Take note that not all BSc programmes require both Life and Physical Sciences. See NAS 2.2 – table 5 for more detail.** (vi) Biology HG = D or SG = B and Physical Science HG = E or SG = C. (vii) Participation in the National Benchmark (NBT) tests for Language. (viii) Participation in the National Benchmark (NBT) tests for Mathematics.	(i) NSC or NCV with an endorsement that allows entrance to degree studies or an equivalent qualification. (ii) A minimum AP of 30, as calculated from Table 3 (iii) A performance level 4 (50%) in an official tuition language. (iv) Mathematics on level 5 (60%). Alternatively at least a pass mark in MATD1564 or MATD1534 or MATM1584 is required. If STSM1614 or MATM1614 is included in the learning programme a level 6 (70%) and a level 7 (80%) is respectively required for Mathematics. Alternatively a pass mark of at least 80% in MATD1564 or at least 70% in MATM1584 or a pass in MATM1534 is required and 60% in the Departmental Admission test. (v) Both Life Science and Physical Science must be included. **Take note that not all BSc programmes require both Life and Physical Sciences. See NAS 2.2 – table 5 for more detail.** (vi) Life Sciences level 5 (60%) and Physical Science level 4 (50%). Alternatively, at least 60% is required in the modules CHEM1552, CHEM1532, CHEM1622 and CHEM1642. (vii) Participation in the National Benchmark (NBT) tests for Language. (viii) Participation in the National Benchmark (NBT) tests for Mathematics.

f) If students wish to transfer from other higher education institutions or another UFS Faculty's programme before they have completed their undergraduate studies they must provide evidence of their academic progress, in the form of an academic record and module content discription. These records will be used to determine which modules could be recognised in the UFS prescribed curriculum and at which level the student will be placed.

NAS2.2 – Specific undergraduate programme requirements

Table 5: Specific admission requirements

(a) Advanced Diploma in Sustainable Agriculture in Rural Development

- A related Diploma or qualification at NQF Level 6.
- Applicants with different qualifications can be admitted if their qualifications are judged equivalent by a designated UFS panel through the Recognition of Prior Learning process. Applicants should have sound and proven experience relevant to the agricultural environment. Practical experience in agriculture and/or rural development, and appropriate prior learning are prerequisites for admission.
- This qualification is not envisaged for the individual passing directly on from the National Senior Certificate to subsequent NQF Exit Levels.

(b) University Preparation Programme (Natural Sciences and Mathematics)

- Requires a National Senior Certificate (NSC) or National Certificate (Vocational) (NCV) that allows entrance to diploma or higher certificate*.
- Minimum AP of 20.
- Official tuition language with a minimum achievement level 3 (40%).
- Mathematics with a minimum achievement level 3 (40%).
- Life Sciences with a minimum achievement level 3 (40%) AND Physical Science with a minimum achievement level 3 (40%).

(c) University Preparation Programme (Agricultural Sciences)

- National Senior Certificate (NSC) or National Certificate (Vocational) (NCV) that allows entrance to diploma or higher certificate* studies.
- Minimum AP of 20.
- Official tuition language with a minimum achievement level 3 (40%).
- Mathematical Literacy with a minimum achievement level 5 (60%) OR Mathematics with a minimum achievement level 2 (30%).

(d) BAgric extended four-year

- Requirement (i) in Table 4 above.
- A minimum AP of 25.
- Official tuition language with a minimum achievement level 4 (50%).
- Mathematics on performance level 2 (30%) or Mathematical Literacy at least at level 5 (60%) if the AP score is above 26.

(e) BSc extended four-year (Chemistry and Mathematics)

- Requirement (i) in table 4 above.
- A minimum AP of 25.
- Official tuition language with a minimum achievement level 4 (50%).
- Mathematics on performance level 3 (40%).
- Life Sciences at performance level 4 (50%) or Physical Science on performance level 3 (40%).

(f) BSc extended four-year (Mathematics and Finances)

- Requirement (i) in table 4 above.
- A minimum AP of 25.
- Official tuition language with a minimum achievement level 4 (50%).
- Mathematics at performance level 3 (40%).

BSc extended four-year (Computer Science and Mathematics) QWAQWA only

- Requirement (i) in table 4 above.
- A minimum AP of 25.
- Official tuition language with a minimum achievement level 4 (50%).
- Mathematics at performance level 3 (40%).

If students want to major in Physics or Chemistry together with Computer Science they need to Physical Science at performance level 3 (50%)

(g) BSc (Agriculture) extended five-year

- Requirement (i) in table 4 above.
- A minimum AP of 25 and a performance level 4 (50%) in an official tuition language.
- Mathematics at performance level 3 (40%).
- Life Sciences or Agricultural Science at performance level 4 (50%) or Physical Science at performance level 3 (40%).

(i) BSc majoring in Actuarial Science

- Requirements (i), (iii-(iv), (vii) & (viii) in table 4 above.
- A minimum AP of 34.
- Mathematics at performance level 7 (80%).
- If students transfer from foundational programmes or other degree programmes they must have an average of at least 70%, and at least 65% for each individual module.

(h) BAgric

- Requirements (i)-(iii) & (vii) in table 4 above.
- Mathematics at performance level 3 (40%) or Mathematical Literacy at least at level 7 (80%) if the AP is 31 or above.

(k) BSc majoring in Agricultural Economics

- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Modules AGEC3714, AGEC3724, AGEC3734, AGEC3744, AGMA3714, AGMA3724, AGMA3734 and AGMA3744 might only be presented in English in which case translation services will be available from English to Afrikaans depending on student numbers and availability of resources.

(j) BSc (Agriculture)

- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Either Life Sciences, Agricultural Sciences or Physical Science.
- Performance level 5 (60%) for Life Sciences or Agricultural Sciences and Performance level 4 (50%) for Physical Science.

(l) B (Consumer Sciences)

- Requirements (i)-(iii) & (vii) in table 4 above.

Table 5: Specific admission requirements

(m) BArch

- A selection process takes place before admission. Applications must reach the UFS before the 31 May the year before intended registration.
- A maximum number of 55 students are admitted.
- A student registered for a programme at the UFS and wishing to change to the BArch-programme, must contact the department on or before 31 May the year before intended registration.
- of the year before intended registration.
- Requirements (i)-(iii), (vii) & (viii) in table 4 above.
- Mathematics at performance level 4 (50%).
- All information pertaining to the selection process is available on the departmental website: www.ufs.ac.za/architecture; see 'Academic Information'.
- Applicants have to pass a preliminary selection process.
- Applicants who passed the preliminary selection will be invited to a selection interview at which a portfolio of creative work has to be presented.
- Qualifying applicants must write aptitude and NBT test and submit the results to the department before the selection interview.
- Students will be notified of the outcome not later than the end of November of the year before intended registration.

(n) BSc majoring in Biological Sciences with:

Biochemistry and Microbiology

- Modules MCBG3714, MCBP3714, MCBM3724, MCBC3724, BOCM3714, BOCE3714, BOCP3724, and BOCS3724 might only be presented in English in which case translation services will be available from English to Afrikaans depending on student numbers and availability of resources.
- Students wishing to continue with MCBP2616 must take note that a maximum of 160 students will be accepted due to laboratory constraints. Students will be admitted based on academic performance.
- Students wishing to continue with BOCB2616 must take note that a maximum of 210 students will be accepted due to laboratory and equipment constraints. Students will be admitted based on academic performance.

Genetics

- Please note a selection process is required for: GENE2616, GENE2626, GENE3714, GENE3724, GENE3734, GENE3744. Only 150 students will be accepted based on academic performance. Students wishing to continue with any of these modules must apply for selection (genetics@ufs.ac.za).
- Modules in the 3rd year GENE3714, FORS3714 and HMBG3714 might only be presented in English in which case translation services will be available from English to Afrikaans depending on student numbers and availability of resources

Botany

- For students in BTNY2616, they must have obtained at least 55% in BLGY1643.

Environmental Rehabilitation

- The same academic requirements set for students entering a BSc majoring in Geology will be applied for entering in the BSs majoring in Environmental Rehabilitation

(o) BSc majoring in Chemical and Physical Science

- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Physical Science at performance level 4 (50%) or Physical Science HG = E or SG = C.
- If Biological modules is the second major Life Sciences at performance level 5 (60%) is required.
- Please note a selection process is required for: CHEM26XX and CHEM37XX. Only 80 second year students and a maximum of 60 third year students (Bloemfontein campus) and 70 second year students and a maximum of 45 third year students for the Qwaqwa campus will be admitted owing to laboratory constraints. These students will be admitted based on academic performance.
- Students intending to register for engineering modules must take note that limited space is available.

BSc majoring in Physics and Engineering Subjects:

- AP score of ≥34
- Cumulative AP ≥ 13 for Mathematics and Physical Science, at least performance level 6 (70%) for Mathematics.

(p) BSc majoring in Forensic Sciences

- A selection process takes place before admission. A maximum number of 80 students will be admitted. NBT tests results will also be used for selection purposes.
- Applications close on 30 September the year before intended registration.
- Requirements (i), (iii)-(iv), (vii) & (viii) in table 4 above.
- A minimum AP ≥ 34 (with cumulative AP ≥ 17 for Mathematics, Life Science and Physical Science).
- No person with a criminal record will be allowed into this programme.

Table 5: Specific admission requirements

(q) BSc majoring in Geography

- Requirements (i)-(iv) and (vii) & (viii) in Table 4 above.
- Physical Science at performance level 4 (50%) to register for the Geographical Information Systems programme.
- Life Sciences at performance level 5 (60%) is required for Environmental Sciences and Agrometeorology programmes.
- Life Science performance level 5 (60%) or Physical Science performance level 4 (50%) for the Statistics programme.

(r) BSc majoring in Geology

- A selection process takes place before admission. In the first year a maximum number of 80 students will be admitted to GLGY1614 owing to laboratory constraints. In the second and third year a maximum number of 60 students will be admitted due to laboratory constraints. These students will be admitted based on academic performance. Students who have not obtained an average of at least 55% for GLGY1614 or GLGY1624 or failing GLGY1614 or GLGY1624 or any other prescribed first year module will not be able to continue their studies in any of the Geology programmes.
- Applications to the BSc Geology programme, on the prescribed form, must reach the Registrar, Academic Student Services, UFS, Bloemfontein, on or before 30 September of the year before the intended registration. Students will be notified of the outcome as soon as examination results are available and no later than January.
- The selection process will be based on academic performance.
- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Physical Science and Mathematics at performance level 5 (60%) or Physical Science HG = E or SG = C. Alternatively, at least 65% is required in the modules CHEM1552, CHEM1532, CHEM1622 and CHEM1642, and in MATD1564/MATD1534.
- An AP of 34 or higher is highly recommended.
- No occasional study students will be allowed.

(t) BSc majoring in Mathematical Sciences

- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Mathematics at performance level 7 (80%). Alternatively (senior students) a mark of at least 70% in MATD1564/MATD1564 or at least 60% in MATM1584 or 50% in MATM1534 is required.
- If Agrometeorology or Chemistry or Physics is the second major Physical Science with a performance level of 4 (50%) is required.
- If enrolling for Applied Statistics degrees only level 5(60%) for Mathematics is required.

(s) BSc (Information Technology)

- Requirements (i)-(iii) and (vii) & (viii) in table 4 above.
- At least performance level 4 (50%) in Mathematics to register for BCIS or any BSc(IT) degree. A higher performance level might be required (see below).
- Mathematics at performance level 4 (50%) in order to register for MATM1574.
- Mathematics at performance level 5 (60%) to register for MATM1534.
- Mathematics at performance level 6 (70%) to register for STSM1614.
- Mathematics at performance level 7 (80%) in order to register for MATM1614. Alternatively (senior students) a pass mark of 80% for MATD1534/1564 or 70% for MATM1584 or 50% for MATM1534 and 60% for the Departmental Admission Test.
- If Chemistry or Physics is the second major, Physical Science at performance level 4 (50%) is required.

BSc (Information Technology) QWAQWA

- Requirements (i)-(iii) and (vii) & (viii) in table 4 above.
- At least performance level 4 (50%) in Mathematics to register for any BSc(IT) degree. A higher performance level might be required (see below).
- Mathematics at performance level 4 (50%) in order to register for IT and Management
- Mathematics at performance level 5 (60%) to register for MATM1534.
- Mathematics at performance level 7 (80%) in order to register for MATM1614. Alternatively (senior students) a pass mark of 80% for MATD1534/1564 or 70% for MATM1584 or 50% for MATM1534 and 60% for the Departmental Admission Test.
- If Chemistry or Physics is the second major, Physical Science at performance level 4 (50%) is required.

(u) BSc majoring in Quantity Surveying and BSc majoring in Construction Management

- NSC or NCV with an endorsement that allows entrance to degree studies or an equivalent qualification.
- A minimum AP of 35.
- A performance level 4 (50%) in an official tuition language.
- Mathematics on level 5 (60%).
- One of Economics, Business Studies, Accounting or Physical Science on level 4 (50%) is recommended.
- A maximum of 10 students of the extended programme who passes Mathematics development modules and mainstream modules of at least 70% average.
- BTech QS/CM degree with an average of 65% and an AP 31 and above, with maximum of 80 credits will be considered.
- National Diploma in QS with an average of 75% and an AP 31 and above, with no credit recognition will be considered.
- Other degrees: BCom with Economics III (60%) or Accounting II (60%), with a maximum of 80 credits will be considered; all other relevant degrees with an average of 60% in the exit year will be considered.
- A maximum number 80 students are selected.
- Application must be submitted before or on 31 July, the year before intended registration to the programme.
- Distance learning students must be 23 years or older and must be fulltime employed in the sector.

NAS2.3 – Other requirements: Note to students applying for any programme in this faculty

a) Students who score below 65% in the language NBT must register for the language module EALN1508 or AGAN1508.
b) First-time entering students with a performance level 5 in Mathematics or with a NBT mathematics score lower than 50% will have to attend compulsory extra Mathematics tutorial classes for three hours per week.
c) First-time entering students with a performance level of 4 for Physical Science will have to attend compulsory tutorials in Chemistry and Physics if those modules are included in their curriculum.
d) Registration for extra modules has financial implications, and the extra modules do not contribute to the total number of credits required to obtain a degree.
e) Students who have registered for the extra language module and more than one additional tutorial will not be able to register for the full curriculum and will only be allowed to register for three required modules per semester as prescribed in the learning programme.

Postgraduate programmes

The Faculty offers various postgraduate qualifications including Postgraduate Diplomas, Bachelor Honours, Master's, and Doctoral Degrees.

The following Postgraduate Diplomas are presented:

- Postgraduate Diploma in Disaster Management, Integrated Water Resource Management and Environmental Management

The Honours Degrees are divided into two categories namely, Bachelor Honours Degrees and Bachelor of Science Honours Degrees. The following fields of study are covered in each of the categories:

- Bachelor Honours is offered in Architecture, Agriculture (Agricultural Management, Irrigation Management, Wildlife Management), Consumer Sciences and Spatial Planning (specialising in Housing).
- Bachelor of Science Honours in Agriculture degree is awarded in the following fields of study: Agrometeorology, Agronomy, Animal Sciences, Food Science, Grassland Science, Plant Breeding, Plant Pathology, Soil Science. Actuarial Sciences, Agricultural Economics, Agrometeorology, Astrophysics, Behavioural Genetics, Biochemistry, Botany (Qwaqwa), Chemistry (Qwaqwa), Computer Science and Informatics, Consumer Science, Construction Management, Entomology, Environmental Geography (Qwaqwa), Environmental Geology, Environmental Rehabilitation, Food Science, Forensic Genetics, Genetics, Geochemistry, Geography, Geography and Ecology, Geography and Environmental Science, Geohydrology, Geology, Life Sciences, Limnology, Mathematics and Applied Mathematics, Mathematical Statistics, Microbiology, Physics (Qwaqwa), Plant Breeding, Plant Health Ecology, Plant Pathology, Polymer Science (only Qwaqwa) Soil Science, Statistics, Quantity Surveying, and Zoology (Qwaqwa).

The Master's Degrees are divided into three categories, namely; Master's Degrees, Master of Science Degrees, and Master of Science in Agriculture Degrees. The following fields of study are covered in each of the categories:

- Master's Degrees are offered in the following fields of study: Architecture, Architecture (Professional), Agricultural Management, Consumer Science, Disaster Management, Environmental Management, Human Settlements, Irrigation Management, Sustainable Agriculture, Land and Property Development Management, Urban and Regional Planning (Professional) and Urban and Regional Planning, Wildlife Management
- Master of Science is awarded in the following fields of study: Agricultural Economics, Actuarial Sciences, Agrometeorology, Applied Mathematics, Astrophysics, Behavioural Genetics, Geographical Information Systems, Biochemistry, Botany, Chemistry, Computer Science and Informatics, Construction Management, Consumer Science, Entomology, Environmental Geology, Environmental Management, Environmental Rehabilitation, Food Science, Forensic Genetics, Forensic Sciences, Forensic Sciences Interdisciplinary, Genetics, Geochemistry, Geography, Geography and Environmental Science, Geohydrology, Geology, Grassland Science, Limnology, Mathematics, Mathematical Statistics, Mathematical Statistics and Risk Analysis, Microbial Biotechnology, Microbiology, Mineral Resource Management, Nano Science Physics, Plant Breeding, Plant Breeding Interdisciplinary, Plant Health Ecology, Plant Pathology, Polymer Science, Soil Science, Property Science, Statistics, Quantity Surveying, Zoology.
- Master of Science in Agriculture are offered in the following fields of
- study: Agrometeorology, Agrometeorology Interdisciplinary, Agronomy, Agronomy Interdisciplinary, Animal Sciences, Food Science, Grassland Science, Plant Breeding, Plant Breeding Interdisciplinary, Plant Pathology, Plant Pathology Interdisciplinary, Soil Science Interdisciplinary, Wildlife.

Doctoral Degrees are offered in the following fields of study:

- Actuarial Sciences, Architecture, Agricultural Economics, Agricultural Management, Agrometeorology, Agrometeorology Interdisciplinary, Agronomy, Agronomy Interdisciplinary, Animal Sciences, Astrophysics, Applied Mathematics, Behavioural Genetics, Biochemistry, Botany, Chemistry, Computer Science and Informatics, Construction Management,

Consumer Science, Disaster Management, Environmental Management, Entomology, Environmental Geology, Environmental Rehabilitation, Food Science, Forensic Genetics, Forensic Sciences, Forensic Sciences Interdisciplinary, Forensic Sciences, Genetics, Geochemistry, Geographical Information Systems, Geography, Geography and Environmental Science, Geohydrology, Geology, Grassland Science, Housing, Irrigation Management, Land and Property Development Management, Limnology, Mathematics, Mathematical Statistics, Microbiology, Microbial Biotechnology, Mineral Resource Management, Nanoscience, Physics, Plant Breeding, Plant Breeding Interdisciplinary, Plant Health Ecology, Plant Pathology, Plant Pathology Interdisciplinary, Polymer Science, Property Science, Quantity Surveying, Risk Analysis, Spatial Planning (Specialising in Human Settlements), Soil Science, Soil Science Interdisciplinary, Statistics, Sustainable Agriculture, Urban and Regional Planning, Wildlife, Wildlife Management and Zoology.

Doctor of Science Degrees are offered in the following fields of study:

- Actuarial Sciences, Agricultural Economics, Agrometeorology, Agrometeorology Interdisciplinary Agronomy, Agronomy Interdisciplinary, Animal Sciences, Astrophysics, Applied Mathematics, Behavioural Genetics, Biochemistry, Botany, Chemistry, Computer Science and Informatics, Construction Management, Consumer Science, Environmental Management, Entomology, Environmental Geology, Environmental Rehabilitation, Food Science, Forensic Genetics, Forensic Sciences, Forensic Sciences Interdisciplinary, Forensic Sciences, Genetics, Geochemistry, Geographical Information Systems Geography, Geography and Environmental Science, Geohydrology, Geology, Grassland Science, Limnology, Mathematics, Mathematical Statistics, Microbiology, Microbial Biotechnology, Mineral Resource Management, Nanoscience, Physics, Plant Breeding, Plant Breeding Interdisciplinary, Plant Health Ecology, Plant Pathology, Plant Pathology Interdisciplinary, Polymer Science, Quantity Surveying, Risk Analysis, Soil Science, Soil Science Interdisciplinary, Statistics, Wildlife and Zoology.

NAS3.1 – Admission requirements for the Postgraduate Diploma

In addition to the requirements contained in General Rules A20-39, a student has to comply with the additional Faculty requirements:

(a) An applicant must have at least a minimum three-year degree (at NQF Exit Level 7) from any applicable field of study.
(b) A minimum average of 60% must be obtained in the final year of study.
(c) The student must prove to the Academic Departmental Head that he/she has adequate knowledge to justify admission to the programme.
(d) Applicants who do not have the formal minimum requirements must apply through Recognition of Prior Learning.
(e) Admission is subject to a selection process. Qualification and experience in the disaster management field will be an added advantage. It is a 1 year full-time and up to 2 years part-time programme.

1.	**Postgraduate Diploma in Disaster Management**	• Admission depends on previously acquired knowledge and experience in the disaster management field, as well as an appropriate NQF Exit Level 7 qualification

NAS3.2.1 – Admission requirements for Bachelor Honours Degrees

In addition to the requirements contained in General Rules A47, a student has to comply with the additional Faculty requirements:

(a) A Bachelor's Degree or equivalent NQF Exit Level 7 qualification including one of the following: BArch, BAgric, BConsumer Sciences, BComputer Information Systems, BSc (Information Technology), BSc majoring in Quantity Surveying or Construction Management and the following additional requirements per discipline.
(b) A deserving applicant in possession of a BSc degree with the required major modules may be permitted by the Academic Departmental Head and with the approval of the Dean to receive postgraduate training in Agriculture. Such a student registers for BScHons (Agriculture), during which prescribed honours modules as well as certain additional undergraduate Agriculture modules may be taken in consultation with the departmental chair.
(c) All Honours Degrees are selection courses and admission to these degrees is subject to approval of the departmental chair/Programme Director.
(d) Applicants should apply for admission to the Honours Degrees on the prescribed form. These forms should be completed and handed to the relevant Programme Director at the beginning of the second semester. Selection will take place when results are available. The honours programmes start on a date as determined by the relevant department. All modules in the learning programme must be successfully completed.

NAS3.2.2 – Admission requirements for a Postgraduate Diploma

In addition to the requirements contained in General Rules A47, a student has to comply with the additional Faculty requirements:

(a) A Bachelor's Degree or equivalent NQF Exit Level 7 qualification
(b) Appropriate work experience

NAS3.3 – Specific programme requirements for Honours Degrees

2.	**Architecture**	• Application must reach the UFS before 31 May the year before intended registration. • A selection process takes place before admission. A maximum of 45 students will be admitted. • All information pertaining to the selection process is available on the departmental website: www.ufs.ac.za/architecture; see 'Academic Information'. • To be eligible for BArchHons selection, a student must have obtained a BArch degree or equivalent qualification from any other Architectural Learning Site with a collective average mark in his/her final year of 55% for the following modules or their equivalent, CONS3706, HARC3704 and TARC3704, as well as a subminimum of 60% for DESN3700 or its equivalent. • Students who do not comply with the above prerequisite must either repeat (only once) selected module(s) or work on the recommendation of the Academic Departmental Head, in an architect's office for a year in order to be eligible for BArchHons selection the following year. • Students may be required to attend a personal interview, present a portfolio and provide verified academic records. The final discretion on whether the student can enrol for the programme will rest with the selection panel. • Language proficiency, in the medium of instruction that students want to do the programme (English or Afrikaans) will be part of selection.
3.	**Actuarial Science**	• A student must have a BSc or BCom degree in Actuarial Science, as well as being qualified for at least four exemptions in the modules of the Faculty / Institute of Actuaries, of which at least one exemption has to be for CT1, CT4, CT6 or CT8.
4.	**Agricultural Economics**	**BScHons (Agricultural Economics)** • Admission to the study is subject to the discretion and approval of the Academic Departmental Head. The following criteria are required: o BSc degree in Agricultural Economics o An average mark of 65% for all undergraduate Agricultural Economics modules over the full period of the BSc degree. • Additional modules /modules may be required before admission to the BScHons study. **BAgricHons (Agricultural Economics)** • Admission to the study is subject to the discretion and approval of the Academic Departmental Head. The following criteria are required: o BAgric degree in Agricultural Economics o An average mark of 65% for all undergraduate Agricultural Economics modules over the full period of the BAgric degree. • Additional modules /modules may be required before admission to the BAgricHons study.
5.	**Agriculture**	**Agricultural Management** • Admission to the study is subject to the discretion and approval of the Academic Departmental Head. The following criteria are required: o BAgric degree in Agricultural Management o An average mark of 65% for all undergraduate Agricultural Economics and Agricultural Management modules over the full period of the BAgric degree. • Additional modules /modules may be required before admission to the BAgricHons study. **Wildlife Management** • • A minimum of 60% in Agricultural Management and/or Agricultural economics or equivalent modules at NQF 7 level. • economics or equivalent modules at NQF 7 level. **Irrigation Management** • A minimum of 60% in Agricultural Engineering or equivalent at NQF 7 level. • Apart from the above mentioned requirements, the Academic Departmental Head may expect a student to complete certain additional modules.
6.	**Agrometeorology**	• Agrometeorology at third-year (NQF 7) level.
7.	**Behavioural Genetics (Human Genetics)**	• Admission into BScHons majoring in Behavioural Genetics for students who majored in Genetics and Psychology or Zoology is subject to selection. A minimum of 60% in Genetics at third-year (NQF 7) level is required. Selection will take place during August each year.
8.	**Biochemistry**	• At least 64 credits in Biochemistry at third-year level. An average of 65% in undergraduate Biochemistry modules.
9.	**Botany**	• A minimum of 60% in Botany at third-year (NQF 7) level and in consultation with the Academic Departmental Head.

10. Chemistry	• To be considered for BScHons in Chemistry, a student must have a BSc degree. Other prerequisites include MATM1614 or MATM1534, plus MATM1624 or MATM1544. An average mark of 60% in CHEM3713+CHEM3711, CHEM3733+ CHEM3731, CHEM3723+ CHEM3721 and CHEM3743+ CHEM3741or equivalent NQF Exit Level 7 modules. Note also that the programme starts annually on 15 January.
11. Computer Science and Informatics	• A minimum average of 60% for the relevant Computer Science modules at third-year (NQF 7) level. In exceptional cases students may be allowed in consultation with the Programme Director or Academic Departmental Head.
12. Consumer Sciences	• Consumer Science or relevant NQF at Level 7 at third-year (NQF 7) level with at least 60%.
13. Construction Management	• A selection process takes place before admission. A maximum number of 30 students are admitted owing to classroom constraints. • Application must be submitted before or on 31 August, the year before intended registration to the Bachelor Honours programme. • Bachelor's/BSc degree in Construction Management at NQF Exit Level 7 at an accredited institution with an average of 60% in exit year, excluding BTech.
14. Entomology	• A minimum of 60% in Entomology & Zoology at third-year (NQF 7) level and in consultation with the Programme Director.
15. Environmental Rehabilitation	• A minimum of 60% in relevant modules at third-year (NQF 7) level and in consultation with the Academic Departmental Head. • Students entering from a BSc decree in Geology will do the degree over 18 months and must take BTNY2616, BTNY3702 amd BTNY3734 as bridging courses.
16. Food Science	• Food Science at third-year (NQF 7) level. An average of 65% in undergraduate Food Science modules.
17. Forensic Sciences	• Admission into BScHons in Forensic Sciences is subject to selection. A minimum of 60% in relevant modules at third-year (NQF 7) level or equivalent modules are required. Selection will take place at the end of August each year.
18. Genetics	• Admission into BScHons majoring in Genetics is subject to selection. A minimum of 60% in Genetics at third-year (NQF 7) level or equivalent modules are required. Selection will take place during August of each year.
19. Geography	• A student must achieve an average pass mark of 60% for all Geography modules (64 credits) at third-year (NQF 7) level to be admitted to the Bachelor Honours Degree. In exceptional cases the department may grant admission by virtue of an oral or written assessment in which the student displays relevant knowledge of the theory and principles of the subject. Depending on a student's academic background, additional modules may be prescribed by the department. Proof of computer literacy is a prerequisite. A student's skills in English will be assessed (Proficient performance in the TALPS Test) and if the required standard is not met, additional modules will be prescribed.
20. Geology, Geochemistry and Environmental Geology	• Students who did not receive their BSc Geology Degree at the University of the Free State, need to have achieved a combined average pass mark of 65% for at least 64 credits in their final year Geology modules • For admission to the Bachelor Honours Degree in Geology, Geochemistry or Environmental Geology a student must achieve a combined average pass mark of 60% in four Geology modules (64 credits) at third-year (NQF 7) level (two modules in the first semester and two in the second semester, including GLGY3714 and GLGY3724 or equivalent modules). Students must complete all required NQF Exit Level 7 Geology modules in a maximum of two years. Students who have completed their Geology modules in the first attempt will be given preference. Thirty students will be admitted to the Geology Bachelor Honours programme. However the Geochemistry and the Environmental Geology programme can only accommodate a maximum of five students each. Proficient performance in the TALPS Test is required.
21. Geographical Information Systems	• Geography at third-year (NQF 7) level or equivalent Geography at NQF 7 at another university with at least 64 credits in total in this subject area. Minimum average of 60% in the third-year. BSc in Geography with an average of 60% of 3 year modules.
22. Geohydrology	• A BSc, BScAgriculture, BEng degree or BTech(Geology) degree. An average of 60% in the final year of a BSc degree calculated from the major subject, as well as Geology, Chemistry, and Mathematics or Statistics on first-year level is required for admission to the degree. A selection process takes place before admission. A maximum of 40 students can be admitted. Application close 30 September the year before intended registration. Proficient performance in the TALPS Test is required.
23. Grassland Science	• Grassland Science at third-year (NQF 7) level.
24. Consumer Science	• BSc Consumer Science, B Consumer Science or an equivalent qualification.
25. Life Sciences	• A person must pass with an average of 60% for all third-year and second-year Life Science modules.

26. Limnology	• A BSc or BScAgriculture degree with at least one of the following as major: Biochemistry, Botany, Chemistry, Entomology, Mathematics, Microbiology, Physics, Soil Science, Zoology. • A mimimum of 60% in relevant modules at third year (NQF 7) level and in consultation with the Academic Departmental Head. • A selection process takes place before admission.
27. Mathematics and Applied Mathematics	• At least four Mathematics and Applied Mathematics or equivalent modules, at third-year (NQF 7) level, completed with an average mark of 60%. In addition, all applicants will have to write and pass an admission examination to verify sufficient background and foundational mathematics knowledge. If necessary, students may be required to take additional undergraduate modules as supplementary prerequisites for certain Bachelor Honours modules. Proficient performance in the TALPS Test is also required before enrolment. The Academic Departmental Head grants admission and consults on the compilation of the curriculum. Students will do an oral presentation for their final selection.
28. Mathematical Statistics	• A minimum average pass mark of 60% in STSM3714, STSM3724, STSM3734 and STSM3744 or equivalent NQF 7 level modules
29. Microbiology	• At least 64 credits in Microbiology at third-year (NQF 7) level. An average of 65% in undergraduate Microbiology modules.
30. Physics	• An average mark of 60% in PHYS3714, PHYS3732, PHYS3752, PHYS3724, PHYS3742 and PHYS3762. The Academic Departmental Head may grant permission for admission to the Bachelor Honours Degree in exceptional cases. The programme commences in middle January and students must apply for admission to the Academic Departmental Head before that date.
31. Plant Breeding	• A minimum of 60% average for all the Plant Breeding modules on third-year (NQF 7) level is required.
32. Plant Health Ecology	• Plant Health or equivalent modules at third-year (NQF 7) level.
33. Plant Pathology	• An average of 60% for the third-year in a BSc or BScAgriculture Degree with the following as major: Plant Pathology or equivalent NQF Level 7 modules. Students may be required to take additional undergraduate courses based on their academic background.
34. Polymer Science	• A minimum of 60% average for all the Chemistry modules on third-year (NQF 7) level is required.
35. Soil Science	• Soil Science at third-year (NQF 7) level.
36. Statistics	• MATM1614 and MATM1624, as well as a minimum average mark of 65% in STSA2616, STSA2626, STSA3716 and STSA3726.
37. Spatial Planning and BSPHons (specializing in Housing)	• Closing date for applications is 31 July prior to intended year of registration. • An appropriate qualification at NQF Level 7 (SAQA certificate must accompany the qualification when requested), as approved by the academic departmental head and an average of at least 60% in previous qualifications. • Applicants have to write selection tests if they are considered suitable for selection. These tests will be conducted online at a pre-arranged time and date. • If a student does not entirely meet the admission requirements, the academic departmental head and the Recognition of Prior Learning office, in consultation with the dean may, in meritorious cases, recommend that some concessions be made in respect of the requirements. The final decision shall rest with the dean. Supplementary courses, as determined by the head of the department, may be required.
38. Quantity Surveying	• A selection process takes place before admission. A maximum number of 30 students are admitted owing to classroom constraints. • Application must be submitted before or on 31 August, the year before intended registration to the Bachelor Honours programme. • Bachelor's/BSc degree in Quantity Surveying on NQF Exit Level 7 at an accredited institution with an average of 60% in exit year, excluding BTech.
39. Wildlife	• Grassland Science at third-year (NQF 7) level or equivalent modules and in consultation with the Academic Departmental Head.
40. Zoology	• A minimum of 60% in Entomology & Zoology at third-year (NQF 7) level and in consultation with the Programme Director.

NAS3.4 – Admission requirements for Master's Degrees

In addition to the requirements contained in General Rules A72, a student has to comply with the additional Faculty requirements:

(a) All Master's Degrees are selection programmes and admission to these degrees is subject to approval of the Academic Departmental Head.

(b) Applicants must apply for admission to the Master's Degree on the prescribed form. These forms are completed and submitted to the Programme Director at the beginning of the second semester. Selection will take place when the results are ready. The Master's programmes start on a date as determined by the relevant department. Each module in the learning programmes must be successfully completed.

(c) Applicants must have an applicable Bachelor Honours Degree or equivalent NQF Exit Level 8 qualification and the additional requirements per discipline (see Reg. NAS3.5).

(d) If a student does not entirely meet the admission requirements, the Dean may, in consultation with the Academic Departmental Head, in meritorious cases, recommend that some concessions be made in respect of the requirements.

(e) Bachelor of Science Honours or relevant Honours Degree on NQF Exit Level 8 with an average of 60% in the exit year of the relevant degree may be recognized as meeting the minimum entry requirements for a Master's Degree programme.

NAS3.5 – Specific programme requirements for Master's Degrees

1.	**Master of Architecture** *(for Professional registration)*	• Application must reach the UFS before 31 May the year before intended registration. • A selection process takes place before admission. A maximum number of 45 students will be admitted. • All information pertaining to the selection process is available on the departmental website: www.ufs.ac.za/architecture; see 'Academic Information'. • To be eligible for MArch selection a student must have obtained a BArchHons degree or equivalent qualification from any other Architectural learning site with a joint average mark in his/her final year of 55% for the following modules or their equivalent: CONS6808, HURB6804 and RARC6808, as well as a subminimum of 60% for DESN6800 or its equivalent. • Students who do not comply with the above prerequisite must either repeat (only once) selected module(s) or work in an architect's office for a year in order to be eligible for MArch selection the following year. • Students may be required to attend a personal interview, present a portfolio and provide verified academic records. • Qualifying students must submit a research proposal as determined and communicated by the Academic Departmental Head. The final discretion whether the student is regarded as ready for the programme will rest with the selection panel.
2.	**Master of Architecture** *(for extended research)*	• Apart from the General Rules the following is applicable: • Students must have obtained either the postgraduate professional qualification, BArch or an equivalent thereof OR the BArchHons or its equivalent. • Students who are in possession of the BArchHons must prove that a Design Dissertation formed part of the requirements for the conferment of such degree. • Students who are in possession of the BArchHons must have obtained a minimum of 60% in THREE of the following modules or their equivalent: DESN6800, CONS6808, HURB6804 and RARC6808. • Qualifying students must submit a dissertation proposal as determined and communicated by the Academic Departmental Head. The final discretion whether the student can enrol for the programme will be the selection panel's.

3.	**Master of Agriculture**	Apart from the General Rules, the following apply: • Students must convince the specific Academic Departmental Head that he/she has sufficient knowledge of the subject to be admitted to the programme. **MAgric (Agricultural Management)** • Admission to the study is subject to the discretion and approval of the Academic Departmental Head and a postgraduate selection committee. The following criteria are required: • Bachelor Honours majoring in Agricultural Management • Proof of successful completion of: o AGMA6808 OR o equivalent module for the above mentioned module. • Registration is only allowed after the research proposal was presented and approved by the postgraduate selection committee. • Additional modules /modules may be required before admission to the MAgric study. • It may be required that some modules be successfully completed by the end of the first year of study for the M Agric degree as a prerequisite for registration of the second year of study for the MAgric degree. • It is required from the student to submit one (1) publishable scientific article when submitting the final dissertation for examination.
4.	**Master of Disaster Management**	Apart from the General Rules the following is applicable:: • A student must in order to be admitted to this Master's programme have: o Appropriate NQF Exit Level 8 Qualification • A student must prove to the Academic Departmental Head that he/she has: o adequate knowledge to justify admission to this study. o practical and/or preparatory experience which will be an added advantage. **NB: An Executive Committee of the UFS will assess, nature and suitability of experience or preparatory studies mentioned above.**
5.	**Master of Environmental Management**	Apart from the General Rules the following is applicable: • A four-year degree (on NQF Exit Level 8) or an equivalent qualification with appropriate experience in the environmental science field will be considered by the University for admission. Depending on the academic background of the student, additional modules may be prescribed. • Where a student with merit does not comply fully with the admission requirements, the Dean, in conjunction with the Selection committee at the Centre for Environmental Management, may recommend that the requirements be partially waived. • As only a limited number of students can be accepted, an application form available from the Centre for Environmental Management (cem@ufs.ac.za) must be submitted by the end of September of the preceding year, after which selection will take place. Proficient performance in the TALPS Test is also required before enrolment.
6.	**Master of Land and Property Development in Housing**	Apart from the General Rules the following is applicable: • A student who wishes to enrol for the degree must have a 60% average in one of the following: - an applicable four-year degree plus applicable practical experience and/or applicable preparatory studies, OR - an applicable Bachelor Honours Degree, or an Bachelor Honours Degree plus applicable studies, and/or practical experience.
7.	**Master of Land and Property Development Management**	In addition to the requirements contained in General Rules A3.1-3.6, a student has to comply with the additional Faculty requirements: • Students should apply for admission to the programme listed above on the prescribed form before the closing date, 31 August the year before intended registration. • Bachelor of Science Honours or relevant Bachelor Honours Degree on NQF Exit Level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research may be recognised as meeting the minimum entry requirements to this Master's Degree programme. • A selection process takes place before admission. A maximum number of 25 students are admitted owing to classroom constraints.
8.	**Master of Sustainable Agriculture**	Apart from the General Rules the following is applicable: • A student who wishes to enrol for the degree must have one of the following: - an applicable four-year degree plus applicable practical experience and/or applicable preparatory studies, OR - an applicable Honours Degree, or an Honours Degree and applicable studies, and/or practical experience. **NB: The scope, nature and applicability of practical experience and preparatory study in Reg. NAS3.4 (a) and (b) above will be determined by the Director of the Centre for Sustainable Agriculture**

9.	**Master of Urban and Regional Planning** *(for extended research)*	Apart from the General Rules the following is applicable: • A student who wishes to enrol for the degree, must have a 60% average in one of the following: - an applicable four-year degree plus applicable practical experience and/or applicable preparatory studies OR - an applicable Honours Degree, or an Bachelor Honours Degree and applicable studies, and/or practical experience.
10.	**Master of Urban and Regional Planning** *(for Professional registration)*	Apart from the General Rules the following is applicable: • A person may be admitted to the programme in Urban and Regional Planning if he/she is in possession of one of the following qualifications with an average pass mark of at least 60% and has the necessary academic background: • Bachelor Honours in Urban and Regional Planning. • A degree similar to a Bachelor Honours in Urban and Regional Planning (missing modules for the Bachelor Honours in Spatial Planning must be completed). • Applicants may have to write selection tests if they are considered to be suitable for selection. These tests, and possible interviews, may be conducted on the Bloemfontein Campus, at a pre-arranged time and date. • Supplementary courses, as determined by the Academic Departmental Head, after consultation with the Dean and/or the Recoginition of prior Learning Office, may be required; or a student may be expected to undergo an extra year of study in order to complete the programme if a he/she does not entirely meet the admission requirements.

11. Master of Science

Apart from the General Rules the following is applicable to the different fields of study:

Agricultural Economics

- Admission to the study is subject to the discretion and approval of the Academic Departmental Head and a postgraduate selection committee. The following criteria are required:
  - Bachelor Honours Degree in Agricultural Economics
  - Proof of successful completion of:
    – AGEC6814, AGEC6834, AGEC6854, AGEC6874, AGEC6808 OR
    – equivalent modules for the above mentioned modules.
  - Registration is only allowed after the research proposal was presented and approved by the postgraduate selection committee.
  - Additional modules may be required before admission to the MSc study.
  - It may be required that some modules be successfully completed by the end of the first year of study for the MSc degree as a prerequisite for registration of the second year of study.
  - It is required from the student to submit one (1) publishable scientific article when submitting the final dissertation for examination

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Computer Science and Informatics

- An applicable Honours Degree with a minimum average pass mark of 60% is required.

Construction Management

In addition to the requirements contained in General Rules A3.1-3.6, a student has to comply with the additional Faculty requirements:

- Bachelor of Science Honours or relevant Bachelor Honours Degree on NQF Exit Level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research, may be recognised as meeting the minimum entry requirements to the Master's Degree programme.
- In addition to these requirements the General Institutional Rules, Rules for Master's Degree of the UFS as well as the additional Natural and Agricultural Sciences Faculty requirements per discipline (see Reg. NAS3.5).

Environmental Management

- An applicable Bachelor Honours Degree
- A candidate must submit a research proposal together with the application.
- Proficient performance in the TALPS Test is required.

Geohydrology

- An applicable Bachelor Honours Degree with a minimum average pass mark of 60% is required. Additional coursework may be prescribed where students do not have the required background in Geohydrology. In special cases admission may be allowed in consultation with the Director of Institute for Groundwater Studies.
- Proficient performance in the TALPS Test is required.

Geology, Geochemistry and Environmental Geology

- An applicable BScHons degree with a minimum average pass mark of 60% is required
- Proficient performance in the TALPS Test is required.

Limnology

- Students in possession of a BScHons degree in Limnology are admitted to this course for which a dissertation (LIMG8900 – 180 credits) is required, based on an approved research project. For persons in possession of a BScHons or BScAgricultureHons degree in a related field of study additional coursework may be prescribed where students do not have the required background in Limnology. In special cases admission may be allowed in consultation with the Director of the Centre for Environmental Management.
- Proficient performance in the TALPS Test is required.

Mathematics or Applied Mathematics

- For admission to a Master's Degree in Mathematics or Applied Mathematics, the student needs Mathematics or Applied Mathematics, or the equivalent at Bachelor Honours level. In addition, all applicants will have to write and pass an admission examination to verify sufficient background and foundational mathematics knowledge. If necessary, students may be required to take additional undergraduate modules as supplementary prerequisites for certain Masters' modules. Proficient performance in the TALPS Test is required before enrolment.

Mathematical Statistics

- An appropriate Bachelor Honours Degree and mathematical background is required. Admission is subject to the approval of the Academic Departmental Head.

Mineral Resource Management

- An applicable BScHons degree with a minimum average pass mark of 60% is required
- Proficient performance in the TALPS Test is required.

Quantity Surveying

In addition to the requirements contained in General Rules A3.1-3.6, a student has to comply with the additional Faculty requirements:

- Bachelor of Science Honours or relevant Bachelor Honours Degree on NQF Exit Level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research may be recognised as meeting the minimum entry requirements to the Master's Degree programme.
- In addition to these requirements the General Institutional Rules, Rules for Master's Studies of the UFS as well as the additional Natural and Agricultural Sciences Faculty requirements per discipline (see Reg. NAS3.5).

12. Master of Science in Agriculture	Apart from the General Rules the following is applicable: • The students must convince the Academic Departmental Head/centre concerned that he/she has adequate knowledge of the subject to justify admission to the study. • In the case of Animal, Grassland Sciences and Food Science admission to the study is subject to the approval of a postgraduate selection committee and Academic Departmental Head. Approval will be based on a satisfactory study record and appropriate qualification, or experience obtained. Additional modules may be required before admission to the MScAgric study is granted.

NAS3.7 – Admission requirements for a Doctoral Degree

In addition to the admission requirements contained in General Rules A106, a student has to comply with the following additional Faculty requirements apply:

(a) All PhD degrees are selection programmes and admission to these degrees is subject to approval by the Academic Departmental Head.

(b) The PhD student must show that he/she has sufficient knowledge of the subject prior to admission. Students should apply for admittance to the Doctoral Degree on the prescribed form. These forms should be completed and submitted to the Academic Departmental Head.

(c) The PhD student must have a Master's Degree or equivalent NQF Exit Level 9 qualification. Master's Degrees include: MArch, MArch, MLPM (M.Prop), MSc, MAgric, MSc (Agriculture), MEM, MSA, MSc (Construction Management), MSc (Quantity Surveying), MURP, or MDM. The following additional requirements for specifics disciplines apply:

NAS3.8 – Specific programme requirements for Doctoral Degrees:

(a) Agricultural Economics	Admission to the study is subject to the discretion and approval of the Academic Departmental Head and a postgraduate selection committee. The following criteria are required: • Master's Degree majoring in Agricultural Economics registration is only allowed after the research proposal was presented and approved by the postgraduate selection committee. • Additional modules may be required before admission to the PhD study. • It may be required that some modules be successfully completed by the end of the first year of study for the PhD degree as a prerequisite for registration of the second year of study for the PhD degree.
(b) Agricultural Management	Admission to the study is subject to the discretion and approval of the Academic Departmental Head and a postgraduate selection committee. The following criteria are required: • Master's Degree majoring in Agricultural Management • Registration is only allowed after the research proposal was presented and approved by the postgraduate selection committee. • Additional modules may be required before admission to the PhD study. • It may be required that some modules be successfully completed by the end of the first year of study for the PhD degree as a prerequisite for registration of the second year of study for the PhD degree.
(c) Disaster Management	• In order to be admitted to the PhD, a student must be in possession of an relevant Master's Degree and specific/relevant modules in the Postgraduate Diploma in Disaster Management. Depending on the background and knowledge that the applicant has, some core disaster management modules may be required in order to equip the student with adequate disaster management knowledge.
(d) Environmental Management	• In order to comply with the admission requirements, a student must possess a Master's of Environmental Management Degree before registering for the PhD degree. Individuals holding another Master's Degree may be considered for admission.
(e) Limnology	• In order to be admitted to the PhD, a student must be in possession of an MSc (Limnology). The Limnology Committee will appoint supervisors and decide in which department a student should register.
(f) Microbial Biotechnology	• A student must be in possession of a Master's Degree in Microbiology, Biochemistry, Food Science, Microbial Biotechnology or related disciplines. Students in possession of a Master's Degree in related modules (e.g. Botany, Zoology, Chemistry, Chemical Engineering) can be requested by the Microbial Biotechnology Committee to complete additional theoretical work, work assignments, and/or modules before the thesis is submitted for examination.
(g) Geology	• Proficient performance in the TALPS Test or the IELTS is required

NAS4 – Progress requirements

Rules A5(a) indicates that a student must complete his/her studies in the minimum prescribed study period plus two years. This is known as the residential period. Most of the undergraduate programmes in this Faculty thus have a residential period of five years, except BScAgriculture and BSc Extended Curriculum Programmes which have a six year residential period.

a) Students must successfully complete a minimum of 64 mainstream credits per year to be allowed to register the following year. Students who do not obtain a minimum of 64 credits per year will automatically be **BLOCKED FOR REGISTRATION** in the Faculty. They will be expected to re-apply in order to be re-admitted to this Faculty.
   Students must therefore pass a minimum of 32 credits per semester to be allowed to register the following semester. Students who fail to obtain 32 credits after the first semester will automatically be blocked for registration. They can appeal to the Faculty Admissions Committee for re-admission. The appeal form must be completed and submitted to the Office of the Dean two days after the results of the supplementary examination are available.

b) Students will only be allowed to repeat a module once if they meet the minimum requirements for repetition.
   If a student only requires 32 credits to obtain a qualification and has not exceeded the residential period, special permission may be granted to repeat a module for the **SECOND** time. No first-year module can be repeated more than once.

c) In order to repeat a module, a student must have completed that module and obtained a semester mark of at least 30 %. Students can follow the appeal process and the Appeal Committee could consider the matter on the basis of merit.

d) Students in the Faculty of Natural and Agricultural Sciences will only be allowed to repeat 9 modules in their three-year study programme or repeat 12 modules in their four-year study programme.

e) Class attendance is required for students who have to register for the same module a second time. In the event of timetable clashes between repeated and new modules, preference must be given to the module being repeated. In such cases, students may not register for the new module.

f) Students who do not pass all their required first-year modules (at least 120 main stream credits) in three years, and have at least obtained 48 second-year credits, will not be allowed to re-register to the Faculty of Natural and Agricultural Sciences.

g) Students must pass a minimum of 80 credits to be able to register for modules in a subsequent study year of a learning programme.

h) Students cannot register for third-year modules if any first-year modules are outstanding.

i) Students must complete their degrees within the residential period. If it becomes evident that the student will not be able to comply with this rule, the student can be deregistered even if the residential period has not been reached.

j) Students who do not comply with i), but have a maximum of 4 modules outstanding, will only be allowed to conditionally register for one more semester. The student must then pass all the modules that they are registered for in that semester. Approval by the Faculty Admissions Committee is needed. Applications for conditional registration close on 31 August of their fifth study year for outstanding first semester modules and 31 January after completion of their fifth year for outstanding second semester modules.

k) Students repeating modules can only register for a maximum of 64 credits per semester. Special permission may be granted for adding one 16-credit module.

l) Students may only register for one additional 16-credit module per semester, over and above the number of prescribed modules required in the learning programme. Approval will depend on the academic record of the student.

m) Opportunity exists in the Faculty of Natural and Agricultural Sciences to appeal against the decision made by the Programme Director and/or delegated representative. A student may submit an appeal to a decision, which must contain supporting documentation that substantiates the situation, to the Appeals Committee of the Faculty. The Appeals Committee consists of the Teaching and Learning Manager and at least two other senior academics within the faculty. The Appeals Committee deliberates the cases before the semester starts. Appeal applications must be submitted to the Office of the Dean five working days before the semester starts. Results of the appeal will be available before the semester starts.

n) Students must obtain at least 45% for a semester mark to participate in the examination.

NAS5 – Module requirements

(a) Students must comply with the requirements of the specific programme and specific modules. All prerequisites for modules presented in the learning programmes in the Faculty are provided in the study guides.

(b) Some modules require selection and students will only be allowed to register for that specific module after approval of the Programme Director.

(c) Students who passed Grade 12 Information Technology at performance level 5 or Computer Application Technology (CAT) at performance level 6 are exempted from CSIQ1531/CSIL1551/CSIL1511 and CSIQ1541/CSIL1561/CSIL1521.
(d) For some modules a minimum prerequisite applies. The requirement is a semester/year mark or an examination mark of 40% in the relevant module. It is indicated as, for example, Min. (MATM1614), if MATM1614 is the relevant module.
(e) If a co-requisite is required and the modules are taken for the first time, the module prescribed as co-requisite must be taken simultaneously with the relevant module. For example, to take GLGY2642, the prerequisites are 55% average for GLGY1614 and GLGY1624 and the co-requisite with GLGY2644.

NAS6 – Students from other faculties

(a) Students from other faculties who register for modules in the Faculty of Natural and Agricultural Sciences must comply with the minimum regulation requirements, as set out in NAS2.1 and NAS2.2.

NAS7 – Learning programme

Students have to:
- Select a learning programme.
- Follow the specific prescribed curriculum.
- Select one of the Biological Sciences, Mathematical Sciences, Chemical and Physical Science, Geosciences, Computer Science and Informatics, Computer Information Systems and Consumer Sciences fields of study for BSc degrees; or Soil Crop and Climate, Animal Wildlife and Grassland, Agricultural Economics, or Food Science for one of BScAgriculture degrees; or Crop Production, or Animal Production fields of study for the BAgric degrees.
- Verify that all the selected modules are included in the **class and examination timetable**.
- Verify that the **prerequisites** prescribed for every module are met.
- Be aware that elective modules can be exchanged with each other, but all compulsory modules must be successfully completed.

NAS7.1 – The selection of a learning programme

a) Students are only allowed to change to different fields of study or degrees within the Faculty at the end of their first year of study. If a student changes from one field of study to another, the total degree residential period must not exceed a maximum of five or six years, depending on the field of study.
b) Students can change within fields of study only up to the second year of study; this does not grant them permission to extend the duration of study beyond five years.
c) Students who change from one major within a complementary learning programme could have an extension on their study duration.

NAS7.2 – Minimum credit allocation

A degree cannot be conferred if the minimum credit requirements are not met and the prescribed curriculum are not fully completed:
(a) **All three-year Degrees:**
If a student wants endorsement with **two majors,** at least 60 credits per major discipline at NQF Exit Level 7 is required.
(b) **BArch, BAgric, BConsumer Sciences, BCompInfoSys, BSc, BSc (Information Technology), BSc in Quantity Surveying or BSc in Construction Management:**
A total of at least 360 credits, with a maximum of 120 credits at NQF Level 5 and 120 credits on Level 6 and Level 7 respectively, must be obtained over three years. At least 60 credits must be from one discipline and at NQF Exit Level 7. For BSc (Quantity Surveying) and BSc (Construction Management) the 60 credits at NQF Exit Level 7 will not be from one discipline.
(c) **BSc Extended Curriculum Programme (four years):**
A total of at least 474 credits, of which at least 112 credits must be developmental modules, a maximum of 208 credits at NQF Level 5 and at least 120 credits at NQF Exit Level 7 must be obtained over four study years.
(d) **BSc (Agriculture), BSc (Consumer Science) (four years):**
A total of at least 480 credits, with a maximum of 96 credits at NQF Level 5 and at least 120 credits at NQF Exit Level 8 for the degree must be obtained over four years. At least 60 credits must be from the minor discipline at NQF Exit Level 7.
(e) **BSc (Agriculture) Extended Curriculum Programme (five years):**
A total of at least 592 credits, of which at least 108 credits must be developmental modules, a maximum of 208 credits at NQF Level 5 and at least 120 credits at NQF Exit Level 8 must be obtained over five study years.

NAS8 – Assessment examination and promotion
NAS8.1 – Examination and promotion system

In addition to the requirements contained in General Rule A28, a student has to comply with the additional Faculty requirements:
(a) The guidelines as set out in the study guide for assessment method and calculation of semester and final marks apply.

(b) The promotion system only applies to specific modules as indicated in the study guides. Students who obtain a semester mark of 70% or higher in a specific module can be promoted if the promotion system applies to the module. The module mark becomes the final mark for the module.
(c) The degree is awarded with distinction to a student who obtained a weighted average of 75% in the prescribed final year modules and if the programme was completed in the prescribed minimum study years.

NAS8.2 – Assessment for Departments of Architecture, Quantity Surveying and Construction Management, and Urban and Regional Planning

(a) For most of the modules presented by the Department of Architecture, Urban and Regional Planning, Quantity Surveying and Construction Management assessment of the student's academic progress will take place on a continuous basis by means of assignments, tests and/or design tasks as specified in the module guide. The acknowledgment of a year/semester mark obtained will be subject to satisfactory attendance at lectures, studio periods and seminars. A final mark which will be taken as the student's examination mark will be compiled from the marks obtained in the assessments mentioned above.
(b) Modules presented by departments other than Architecture or Quantity Surveying/Construction Management will be subject to the assessment procedure of those departments.
(c) Students in the Department of Architecture must meet the prescribed sub-minimum of 30% for all assignments and design tasks as specified in the module guides to pass a module.

NAS8.3

In addition to the requirements contained in General Rule: A9, A28, A53, A83, A113 a student has to comply with the additional Faculty requirements:
(a) To gain admission to the examination in a module in the Faculty of Natural and Agricultural Sciences, a module mark of at least 45% is required.

11. QUALIFICATIONS IN THE FACULTY

11.1 BACHELOR'S DEGREES AND DIPLOMAS		MINIMUM PERIOD OF STUDY	NQF EXIT LEVEL	NUMBER OF LEARNING PROGRAMMES	ABBREVIATION	PAGE
DIPLOMA						
1	Advanced Diploma in Sustainable Agriculture in Rural Development	2 year	7	2	AdvDip(ASARD)	48
ACCESS PROGRAMMES AND EXTENDED CURRICULUM PROGRAMMES – South Campus first year of study						
1	University Preparation Programme: Agricultural Sciences for BAgric	1 year	5	1	UPP Agric	49
2	University Preparation Programme: Natural and Agricultural Sciences for BSc	1 year	5	1	UPP Mathematics & Chemistry	49
3	Bachelor of Agriculture Extended	4 years	7	1	BAgric	50
4	Bachelor of Science in Agriculture Extended Curriculum Programme	5 years	8	1	BSc (Agriculture)	50
5	Bachelor of Science Extended Curriculum Programme (Mathematics and Chemistry)	4 years	7	1	BSc	51
6	Bachelor of Science Extended Curriculum Programme (Mathematics and Finances)	4 years	7	1	BSc	51
BACHELOR'S DEGREES						
1	Bachelor of Architecture	3 years	7	1	BArch	52
2	Bachelor of Agriculture	3 years	7	7	BAgric	53–54
3	Bachelor of Consumer Sciences	3 years	7	2	BConsumer Science	55
4	Bachelor of Computer Information Systems	3 years	7	1	BCompInfoSys	54
5	Bachelor of Science	3 years	7	6 (68)	BSc	56–62
6	Bachelor of Science in Information Technology	3 years	7	5	BSc (Information Technology)	64–65
7	Bachelor of Science majoring in Construction Management (Residential + Open learning)	3 years	7	2	BSc majoring in Construction Management	67–71
8	Bachelor of Science majoring in Quantity Surveying (Residential + Open learning)	3 years	7	2	BSc majoring in Quantity Surveying	63
9	Bachelor of Science in Agriculture	4 years	8	4 (31)	BSc (Agriculture)	57–61
10	Bachelor of Science in Consumer Science	4 years	8	1	BSc (Consumer Science)	72–77

11.2 POSTGRADUATE DIPLOMAS, BACHELOR, HONOURS, MASTER'S AND DOCTORAL DEGREES		MINIMUM PERIOD OF STUDY	NQF EXIT LEVEL	NUMBER OF LEARNING PROGRAMMES	ABBREVIATION	PAGE
	Postgraduate Diploma					
1	Postgraduate Diploma in Disaster Management	1 year	8	1	AdvUniDip (Disaster Management)	79
	BACHELOR HONOURS DEGREES					
1	Bachelor of Architecture Honours	1 year	8	1	BArchHons	79
2	Bachelor of Agriculture Honours	1 year	8	3	BAgricHons	79
3	Bachelor of Science Honours in Agricultural Economics					
4	Bachelor of Science Honours in Consumer Science	1 year	8	1	BScHons (Consumer Science)	79–80
5	Bachelor of Science Honours	1 year	8	35	BScHons	81-86
6	Bachelor of Science Honours majoring in Construction Management (Residential + Open learning)	1 year	8	1	BScHons majoring in Construction Management	83
7	Bachelor of Science Honours majoring in Quantity Surveying (Residential + Open learning)	1 year	8	1	BScHons majoring in Quantity Surveying	83
8	Bachelor of Spatial Planning Honours	1 year	8	1	BSPHons	81
9	Bachelor of Spatial Planning Honours (specialising in Human Settlements)	1 year	8	1	BSPHons	81
	MASTER'S DEGREES					
1	Master of Architecture	2 years	9	1	MArch	87
2	Master of Architecture (Professional)	1 year	9	1	MArch	87
3	Master of Agriculture	1 year	9	1	MAgric	87
4	Master of Disaster Management	2 years	9+8	1	MDM	88
5	Master of Environmental Management	2 years	9	1	MEM	88
6	Master of Land and Property Development in Human Settlements	1 year	9	1	MLPD (Housing)	89
7	Master of Land and Property Development Management	2 years	9	1	MLPM	90
8	Master of Sustainable Agriculture	2 years	9	1	MSA	91
9	Master of Science	2 years	9	37	MSc	92
10	Master of Science in Agriculture	2 years	9	14	MSc (Agriculture)	95
11	Master of Science in Consumer Science	1 year	9	1	MSc (Consumer Science)	80
12	Master of Science in Construction Management	1 year	9	1	MSc (Construction Management)	80
13	Master of Science in Quantity Surveying	1 year	9	1	MSc (Quantity Surveying)	80
14	Master of Urban and Regional Planning (Professional)	2 years	9	1	MURP	81
15	Master of Urban and Regional Planning (Research)	1 year	9	1	MURP	82
	DOCTORAL DEGREES					
2	Doctor of Philosophy	2 years	10	57	PhD	97
3	Doctor of Science	2 years	10	50	DSc	98

11.3 LEARNING PROGRAMMES AND REQUIREMENTS

DIPLOMAS AND ADVANCE DIPLOMAS

2016 CODE	CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
50047	UGRD	B5280	52501	BC520047	Advanced Diploma in Sustainable Agriculture in Rural Development	Dr J van Niekerk	A related diploma or qualification at NQF Level 6.
21000	UGRD	B4220	42201	BC421000	Advanced Diploma in Actuarial Sciences	Dr M von Maltitz	A related diploma or qualification at NQF Level 6. (not approved yet)

ACCESS PROGRAMMES AND EXTENDED CURRICULUM PROGRAMMES

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS				
						AP	NSC % IN TUITION LANGUAGE	NSC LEVEL MATHS	NSC LEVEL PHYSICAL SCIENCE	NSC LEVEL LIFE SCIENCE
UGRD	B430E1	43001	BC4300E1	Bachelor of Science Extended Degree Mathematics and Chemistry	Mr P Bothma	24	40%	40%	40% or	40%
UGRD	B430E2	43001	BC4300E2	Bachelor of Science Extended Degree Mathematics and Finances	Mr P Bothma	24	40%	40%	N/A	N/A
UGRD	B548E1	54801	BC5480E1	Bachelor of Science Extended Degree Agriculture	Miss E Oosthuizen	24	40%	40%	30% or Maths	
UGRD	B530E1	53001	BC5300E1	Bachelor of Agriculture Extended Degree	Miss E Oosthuizen	24	40%	40% or Maths lit 60%	N/A	N/A
UGRD	Q430E1	43001	QC4300E1	Bachelor of Science Extended Degree Mathematics and Chemistry	Mr P Bothma	24	40%	40%	40% or	40%
UGRD	Q430E2	43001	QC4300E2	Bachelor of Science Extended Degree Mathematics and Geography	Mr P Bothma	24	40%	40%	N/A	N/A
UGRD	Q431E1	43011	QC4301E1	Bachelor of Science Extended Degree Computer Sciences and Information Technology	Mr P Bothma	24	40%	40%	40% or	40%
UGRD	M4001	NA	40001	University Preparation Programme in Mathematics and Chemistry	Mr P Bothma	20	40%			
UGRD	M5001	NA	50001	University Preparation Programme in Agriculture	Miss E Oosthuizen	20	40%	30% or Maths lit 50%	40% or	40%
UGRD	B4199	41991	BC419999	University Preparation Programme in Mathematics and Finances	Mr P Bothma	20	40% or	40%	N/A	N/A
UGRD	B4199	41991	BC419999	University Preparation Programme in Mathematics and Computer Science	Mr P Bothma	20	40%	40%	40%	N/A
UGRD	B4391	43911	BC430114	Bachelor of Architecture	Mr J Olivier	30	50%	50%	N/A	N/A
UGRD	B5300	53501	BC530111	Bachelor of Agriculture majoring in Agricultural Economics	Dr A Geyer	30	50%	40% of maths Lit 80% AP>31	N/A	N/A
UGRD	B5300	53501	BC530152	Bachelor of Agriculture majoring in Agricultural Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B5300	53501	BC530101	Bachelor of Agriculture majoring in Animal Production Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B5300	53501	BC530102	Bachelor of Agriculture majoring in Crop Production Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B5300	53501	BC530103	Bachelor of Agriculture majoring in Mixed Farming Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B5300	53501	BC530172	Bachelor of Agriculture majoring in Irrigation Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B5300	53501	BC530190	Bachelor of Agriculture majoring in Wildlife Management	Dr A Geyer	30	50%		N/A	N/A
UGRD	B4363	43610	BC430156	Bachelor of Computer Information Systems	Mr J Marais	30	50%	50%	N/A	N/A
UGRD	B4371	43711	BC430123	Bachelor of Consumer Science	Prof.H Steyn	30	50%	NA	N/A	N/A
UGRD	B4370	43701	BC432300	Bachelor of Science in Consumer Science	Prof.H Steyn	30	50%	60%	50%	60%
UGRD	B4350	43001	BC431100	Bachelor of Science majoring in Agricultural Economics	Dr A Geyer	30	50%	60%	N/A	N/A
UGRD	B4310	43001	BC431920	Bachelor of Science majoring in Biochemistry and Botany	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431927	Bachelor of Science majoring in Biochemistry and Entomology	Dr C Janse van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431929	Bachelor of Science majoring in Biochemistry and Food Science	Dr F O'Neilll	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431931	Bachelor of Science majoring in Biochemistry and Genetics	Dr F O'Neill	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431939	Bachelor of Science majoring in Biochemistry and Microbiology	Prof.K Albertyn	30	50%	60%	50%	60%

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS				
						AP	NSC % IN TUITION LANGUAGE	NSC LEVEL MATHS	NSC LEVEL PHYSICAL SCIENCE	NSC LEVEL LIFE SCIENCE
UGRD	B4310	43001	BC431980	Bachelor of Science majoring in Biochemistry and Physiology	Dr F O'Neill	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431946	Bachelor of Science majoring in Biochemistry and Statistics	Dr F O'Neill	30	50%	60%	50%	60%
UGRD	B4310	43001	BC431949	Bachelor of Science majoring in Biochemistry and Zoology	Dr C Janse van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432027	Bachelor of Science majoring in Botany and Entomology	Dr C Janse van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432031	Bachelor of Science majoring in Botany and Genetics	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432039	Bachelor of Science majoring in Botany and Microbiology	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432041	Bachelor of Science majoring in Botany and Plant Breeding	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432042	Bachelor of Science majoring in Botany and Plant Pathology	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432049	Bachelor of Science majoring in Botany and Zoology	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432082	Bachelor of Science majoring in Plant Health Ecology	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432731	Bachelor of Science majoring in Entomology and Genetics	Dr C Jansen van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432739	Bachelor of Science majoring in Entomology and Microbiology	Dr C Jansen van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC432749	Bachelor of Science majoring in Entomology and Zoology	Dr C Jansen van Rensburg	30	50%	60%	50%	60%
UGRD	B4311	43001	BC433031	Bachelor of Science majoring in Forensic Science	Dr K Ehlers	30	50%	Maths 60% and a cumulative score for Maths, Physical Science and Life Science > 17		
UGRD	B4310	43001	BC433118	Bachelor of Science majoring in Behavioural Genetics	Mrs Z Murray	30	50%	60%	50%	60%
UGRD	B4310	43001	BC433139	Bachelor of Science majoring in Genetics and Microbiology	Prof.K Albertyn	30	50%	60%	50%	
UGRD	B4310	43001	BC433180	Bachelor of Science majoring in Genetics and Physiology	Prof.K Albertyn	30	50%	60%	50%	60%
UGRD	B4310	43001	BC433149	Bachelor of Science majoring in Genetics and Zoology	Dr C Jansen van Rensburg	30	50%	60%	50%	60%
UGRD	B4310	43001	BC433929	Bachelor of Science majoring in Microbiology and Food Sciences	Prof.K Albertyn	30	50%	60%	50%	60%
UGRD	B4310	43001	BC433946	Bachelor of Science majoring in Microbiology and Statistics	Prof.K Albertyn	30	50%	60%	50%	60%
UGRD	B4310	43001	BC433949	Bachelor of Science majoring in Microbiology and Zoology	Dr C Jansen van Rensburg	30	50%	60%	50%	60%
UGRD	B4393	43901	BC432401	Bachelor of Science in Construction Management (open learning)	Dr B Zulch	30	50%	60%	50% in one of Economics, Business Studies, Accounting or Physical Science	
UGRD	B4392	43901	BC432400	Bachelor of Science in Construction Management	Dr B Zulch	30	50%	60%		
UGRD	B4392	43901	BC434300	Bachelor of Science in Quantity Surveying	Dr B Zulch	30	50%	60%		
UGRD	B4393	43901	BC434301	Bachelor of Science in Quantity Surveying (open learning)	Dr B Zulch	30	50%	60%		
UGRD	B4330	43001	BC432119	Bachelor of Science majoring in Chemistry and Biochemistry	Dr J Venter	30	50%	60%	50%	60%
UGRD	B4330	43001	BC432120	Bachelor of Science majoring in Chemistry and Botany	Dr J Venter	30	50%	60%	50%	60%
UGRD	B4330	43001	BC432129	Bachelor of Science majoring in Chemistry and Food Sciences	Dr J Venter	30	50%	60%	50%	60%
UGRD	B4330	43001	BC432139	Bachelor of Science majoring in Chemistry and Microbiology	Dr J Venter	30	50%	60%	50%	60%
UGRD	B4330	43001	BC432140	Bachelor of Science majoring in Chemistry and Physics	Dr J Venter	30	50%	60%	50%	N/A
UGRD	B4331	43001	BC434012	Bachelor of Science majoring in Physics and Agrometeorology	Dr J Venter	30	50%	60%	50%	N/A
UGRD	B4331	43001	BC434017	Bachelor of Science majoring in Physics and Astrophysics	Dr J Venter	30	50%	60%	50%	N/A
UGRD	B4332	43001	BC434026	Bachelor of Science majoring in Physics and Engineering Subjects	Dr J Venter	34	50%	Maths (80%) and Physical Science cumulative score > 13		N/A
UGRD	B4360	43601	BC432221	Bachelor of Science in Information Technology majoring in Computer Science and Chemistry	Mr J Marais	30	50%	60%	50%	N/A
UGRD	B4362	43601	BC432237	Bachelor of Science in Information Technology majoring in Computer Science and Mathematical Statistics	Mr J Marais	30	50%	80%	N/A	N/A
UGRD	B4361	43601	BC432238	Bachelor of Science in Information Technology majoring in Computer Science and Mathematics	Mr J Marais	30	50%	80%	50%	N/A

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS				
						AP	NSC % IN TUITION LANGUAGE	NSC LEVEL MATHS	NSC LEVEL PHYSICAL SCIENCE	NSC LEVEL LIFE SCIENCE
UGRD	B4360	43601	BC432240	Bachelor of Science in Information Technology majoring in Computer Science and Physics	Mr J Marais	30	50%	60%	50%	N/A
UGRD	B4364	43601	BC432255	Bachelor of Science in Information Technology majoring in Computer Science and Business Management	Mr J Marais	30	50%	50%	N/A	N/A
UGRD	B4342	43001	BC433369	Bachelor of Science majoring in Geography and Geographical Information Systems	Miss E Kruger	30	50%	60%	50%	N/A
UGRD	B4340	43001	BC433312	Bachelor of Science majoring in Geography and Agrometeorology	Miss E Kruger	30	50%	60%	50%	60%
UGRD	B4342	43001	BC433346	Bachelor of Science majoring in Geography and Statistics	Miss E Kruger	30	50%	60%	50%	N/A
UGRD	B4310	43001	BC432061	Bachelor of Science majoring in Environmental Rehabilitation	Dr B Visser	30	50%	60%	50%	60%
UGRD	B4340	43001	BC433362	Bachelor of Science majoring in Geography and Environmental Science	Miss E Kruger	30	50%	60%	50%	60%
UGRD	B4341	43001	BC433521	Bachelor of Science majoring in Geology and Chemistry	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4341	43001	BC433528	Bachelor of Science majoring in Environmental Geology	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4341	43001	BC433532	Bachelor of Science majoring in Geochemistry	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4341	43001	BC433533	Bachelor of Science majoring in Geology and Geography	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4341	43001	BC433535	Bachelor of Science majoring in Geology Specialisation	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4341	43001	BC433540	Bachelor of Science majoring in Geology and Physics	Mrs J Magson	30	50%	60%	60%	N/A
UGRD	B4324	43001	BC431000	Bachelor of Science majoring in Actuarial Sciences	Dr M von Maltitz	30	50%	80%	N/A	N/A
UGRD	B4323	43001	BC433712	Bachelor of Science majoring in Climate Sciences	Dr M von Maltitz	30	50%	80%	50%	N/A
UGRD	B4322	43001	BC433758	Bachelor of Science majoring in Econometrics	Dr M von Maltitz	30	50%	80%	N/A	N/A
UGRD	B4322	43001	BC433701	Bachelor of Science majoring in Investment Sciences	Dr M von Maltitz	30	50%	80%	N/A	N/A
UGRD	B4321	43001	BC433816	Bachelor of Science majoring in Mathematics and Applied Mathematics	Mr C Venter	30	50%	80%	50%	N/A
UGRD	B4321	43001	BC433821	Bachelor of Science majoring in Mathematics and Chemistry	Mr C Venter	30	50%	80%	50%	N/A
UGRD	B4322	43001	BC433864	Bachelor of Science majoring in Mathematics and Finances	Mr C Venter	30	50%	80%	N/A	N/A
UGRD	B4321	43001	BC433837	Bachelor of Science majoring in Mathematics and Mathematical Statistics	Mr C Venter	30	50%	80%	50%	N/A
UGRD	B4321	43001	BC433840	Bachelor of Science majoring in Mathematics and Physics	Mr C Venter	30	50%	80%	50%	60%
UGRD	B4322	43001	BC433786	Bachelor of Science majoring in Mathematical Statistics and Psychometrics	Dr M von Maltitz	30	50%	70%	50%	N/A
UGRD	B4320	43001	BC434650	Bachelor of Science majoring in Statistics and Accounting	Dr M von Maltitz	30	50%	60%	N/A	N/A
UGRD	B4320	43001	BC434658	Bachelor of Science majoring in Statistics and Economics	Dr M von Maltitz	30	50%	60%	N/A	N/A
UGRD	B4320	43001	BC434686	Bachelor of Science majoring in Statistics and Psychology	Dr M von Maltitz	30	50%	60%	N/A	N/A
UGRD	B5480	54801	BC541211	Bachelor of Science in Agriculture majoring in Agrometeorology with Agricultural Economics	Dr. A Geyer	30	50%	60%	50% for Physical Science or 60% for Life Science or 60% for Agricultural Sciences	
UGRD	B5480	54801	BC541213	Bachelor of Science in Agriculture majoring in Agrometeorology with Agronomy	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541236	Bachelor of Science in Agriculture majoring in Agrometeorology with Grassland Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541242	Bachelor of Science in Agriculture majoring in Agrometeorology with Plant Pathology	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541244	Bachelor of Science in Agriculture majoring in Agrometeorology with Soil Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541251	Bachelor of Science in Agriculture majoring in Agrometeorology with Agricultural Engineering	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541311	Bachelor of Science in Agriculture majoring in Agronomy with Agricultural Economics	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541312	Bachelor of Science in Agriculture majoring in Agronomy with Agrometeorology	Dr. A Geyer	30	50%	60%		

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS				
						AP	NSC % IN TUITION LANGUAGE	NSC LEVEL MATHS	NSC LEVEL PHYSICAL SCIENCE	NSC LEVEL LIFE SCIENCE
UGRD	B5480	54801	BC541315	Bachelor of Science in Agriculture majoring in Agronomy with Animal Science	Dr. A Geyer	30	50%	60%	50% for Physical Science or 60% for Life Science or 60% for Agricultural Sciences	
UGRD	B5480	54801	BC541327	Bachelor of Science in Agriculture majoring in Agronomy with Entomology	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541329	Bachelor of Science in Agriculture majoring in Agronomy with Food Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541341	Bachelor of Science in Agriculture majoring in Agronomy with Plant Breeding	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541342	Bachelor of Science in Agriculture majoring in Agronomy with Pathology	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541344	Bachelor of Science in Agriculture majoring in Agronomy with Soil Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC541511	Bachelor of Science in Agriculture majoring in Animal Sciences with Agricultural Economics	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC542913	Bachelor of Science in Agriculture majoring in Food Science with Agronomy	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC542922	Bachelor of Science in Agriculture majoring in Food Science with Animal Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC543615	Bachelor of Science in Agriculture majoring in Grassland Science with Animal Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC543644	Bachelor of Science in Agriculture majoring in Grassland Science with Soil Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC543689	Bachelor of Science in Agriculture majoring in Grassland Science and Wildlife Production	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544112	Bachelor of Science in Agriculture majoring in Plant Breeding with Agronomy	Dr. B Visser	30	50%	60%		
UGRD	B5480	54801	BC544142	Bachelor of Science in Agriculture majoring in Plant Breeding with Plant Pathology	Dr. B Visser	30	50%	60%		
UGRD	B5480	54801	BC544144	Bachelor of Science in Agriculture majoring in Plant Breeding with Grassland Science	Dr. B Visser	30	50%	60%		
UGRD	B5480	54801	BC544241	Bachelor of Science in Agriculture majoring in Plant Pathology with Plant Breeding	Dr. B Visser	30	50%	60%		
UGRD	B5480	54801	BC544241	Bachelor of Science in Agriculture majoring in Plant Pathology with Plant Breeding	Dr. B Visser	30	50%	60%		
UGRD	B5480	54801	BC544411	Bachelor of Science in Agriculture majoring in Soil Science with Agricultural Economics	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544412	Bachelor of Science in Agriculture majoring in Soil Science with Agrometeorolgy	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544413	Bachelor of Science in Agriculture majoring in Soil Science with Agronomy	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544436	Bachelor of Science in Agriculture majoring in Soil Science with Grassland Science	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544442	Bachelor of Science in Agriculture majoring in Soil Science with Plant Pathology	Dr. A Geyer	30	50%	60%		
UGRD	B5480	54801	BC544451	Bachelor of Science in Agriculture majoring in Soil Science with Agricultural Engineering	Dr. A Geyer	30	50%	60%		

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
PGRD	B5600	56001	BC560072	Bachelor of Agriculture Honours majoring in Irrigation Management	Dr A Geyer	Selection for Hons degree
PGRD	B5600	56001	BC560090	Bachelor of Agriculture Honours majoring in Wildlife Management	Dr A Geyer	Selection for Hons degree
PGRD	B4691	46901	BC460114	Bachelor of Architecture Honours	Mr J Olivier	Selection for Hons degree
PGRD	B5684	56801	BC560012	Bachelor of Science Honours in Agriculture majoring in Agrometeorology	Dr A Geyer	Selection for Hons degree
PGRD	B5684	56801	BC560013	Bachelor of Science Honours in Agriculture majoring in Agronomy	Dr A Geyer	Selection for Hons degree
PGRD	B5681	56801	BC560015	Bachelor of Science Honours in Agriculture majoring in Animal Sciences	Dr A Geyer	Selection for Hons degree
PGRD	B5682	56801	BC560029	Bachelor of Science Honours in Agriculture majoring in Food Science	Dr A Geyer	Selection for Hons degree
PGRD	B5681	56801	BC560036	Bachelor of Science Honours in Agriculture majoring in Grassland	Dr A Geyer	Selection for Hons degree
PGRD	B5683	56801	BC560041	Bachelor of Science Honours in Agriculture majoring in Plant Breeding	Dr A Geyer	Selection for Hons degree
PGRD	B5683	56801	BC560042	Bachelor of Science Honours in Agriculture majoring in Plant Pathology	Dr A Geyer	Selection for Hons degree
PGRD	B5684	56801	BC560044	Bachelor of Science Honours in Agriculture majoring in Soil Science	Dr A Geyer	Selection for Hons degree
PGRD	B4690	46001	BC460024	Bachelor of Science Honours in Construction Management	Dr B Zulch	Selection for Hons degree
PGRD	B4670	46701	BC460023	Bachelor of Science Honours in Consumer Science	Prof.H Steyn	Selection for Hons degree
PGRD	B4690	46941	BC460043	Bachelor of Science Honours in Quantity Surveying	Dr B Zulch	Selection for Hons degree
PGRD	B4620	46001	BC460010	Bachelor of Science Honours majoring in Actuarial Science	Dr M von Maltitz	Selection for Hons degree
PGRD	B4650	46001	BC460011	Bachelor of Science Honours majoring in Agricultural Economics	Dr A Geyer	Selection for Hons degree
PGRD	B4630	46001	BC460012	Bachelor of Science Honours majoring in Agrometeorology	Dr J Venter	Selection for Hons degree
PGRD	B4610	46001	BC460018	Bachelor of Science Honours majoring in Behaviour Genetics	Miss Z Odendaal	Selection for Hons degree
PGRD	B4610	46001	BC460019	Bachelor of Science Honours majoring in Biochemistry	Dr F O'Neill	Selection for Hons degree
PGRD	B4610	46001	BC460020	Bachelor of Science Honours majoring in Botany	Dr B Visser	Selection for Hons degree
PGRD	B4610	46001	BC460021	Bachelor of Science Honours majoring in Chemistry	Dr J Venter	Selection for Hons degree
PGRD	B4620	46001	BC460022	Bachelor of Science Honours majoring in Computer Science and Informatics	Mr J Marias	Selection for Hons degree
PGRD	B4610	46001	BC460027	Bachelor of Science Honours majoring in Entomology	Dr C Jansen van Rensburg	Selection for Hons degree
PGRD	B4640	46001	BC460060	Bachelor of Science Honours majoring in Environment Management	Miss E Kruger	Selection for Hons degree
PGRD	B4640	46001	BC460028	Bachelor of Science Honours majoring in Environmental Geology	Mrs J Magson	Selection for Hons degree
PGRD	B4610	46001	BC460029	Bachelor of Science Honours majoring in Food Science	Dr F O'Neill	Selection for Hons degree
PGRD	B4610	46001	BC460067	Bachelor of Science Honours majoring in Forensic Genetics	Mrs Z Murray	Selection for Hons degree
PGRD	B4610	46001	BC460030	Bachelor of Science Honours majoring in Forensic Science	Dr K Ehlers	Selection for Hons degree
PGRD	B4610	46001	BC460031	Bachelor of Science Honours majoring in Genetics	Miss Z Odendaal	Selection for Hons degree
PGRD	B4640	46001	BC460032	Bachelor of Science Honours majoring in Geochemistry	Mrs J Magson	Selection for Hons degree
PGRD	B4640	46001	BC460069	Bachelor of Science Honours majoring in Geo-informatics	Miss E Kruger	Selection for Hons degree
PGRD	B4640	46001	BC460033	Bachelor of Science Honours majoring in Geography	Miss E Kruger	Selection for Hons degree
PGRD	B4640	46001	BC460034	Bachelor of Science Honours majoring in Geohydrology	Mrs J Magson	Selection for Hons degree
PGRD	B4640	46001	BC460035	Bachelor of Science Honours majoring in Geology	Mrs J Magson	Selection for Hons degree
PGRD	B4610	46001	BC460076	Bachelor of Science Honours majoring in Limnology	Mrs M Avenant	Selection for Hons degree
PGRD	B4620	46001	BC460037	Bachelor of Science Honours majoring in Mathematical Statistics	Mr J Marias	Selection for Hons degree
PGRD	B4620	46001	BC460038	Bachelor of Science Honours majoring in Mathematics and Applied Mathematics	Mr C Venter	Selection for Hons degree
PGRD	B4610	46001	BC460039	Bachelor of Science Honours majoring in Microbiology	Prof.K Albertyn	Selection for Hons degree
PGRD	B4630	46001	BC460040	Bachelor of Science Honours majoring in Physics	Dr J Venter	Selection for Hons degree
PGRD	B4610	46001	BC460082	Bachelor of Science Honours majoring in Plant Health Ecology	Dr B Visser	Selection for Hons degree
PGRD	B4640	46001	BC460044	Bachelor of Science Honours majoring in Soil Science	Prof. van Wyk	Selection for Hons degree
PGRD	B4620	46001	BC460046	Bachelor of Science Honours majoring in Statistics	Dr M von Maltitz	Selection for Hons degree
PGRD	B4610	46001	BC460049	Bachelor of Science Honours majoring in Zoology	Dr C Jansen van Rensburg	Selection for Hons degree
PGRD	B4693	46001	BC460145	Bachelor of Spatial Planning Honours and Spatial Planning Honours (specializing in Housing)	Ms T Mphambukeli	Selection for Hons degree

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
PGRD	B4780	47001	BC470325	Master of Disaster Management	Miss O Kunguma	Selection for Masters degree
PGRD	B4720	47201	BC470110	Master of Science majoring in Acturial Sciences	Dr M von Maltitz	Selection for Masters degree
PGRD	B4720	47201	BC470116	Master of Science majoring in Applied Mathematics	Mr C Venter	Selection for Masters degree
PGRD	B4720	47201	BC470137	Master of Science majoring in Mathematical Statistics	Dr M von Maltitz	Selection for Masters degree
PGRD	B4720	47201	BC470138	Master of Science majoring in Mathematics	Mr C Venter	Selection for Masters degree
PGRD	B4720	47201	BC470187	Master of Science majoring in Risk Analysis	Dr M von Maltitz	Selection for Masters degree
PGRD	B4720	47201	BC470146	Master of Science majoring in Statistics	Dr M von Maltitz	Selection for Masters degree
PGRD	B4739	47301	BC470179	Master of Science majoring in Nanoscience	Dr J Venter	Selection for Masters degree
PGRD	B4791	47901	BC470314	Master of Architecture for professional registration	Mr j Olivier	Selection for Masters degree
PGRD	B4740	47401	BC470460	Master of Environmental Management	Miss E Kruger	Selection for Masters degree
PGRD	B4795	47401	BC470471	Master of Housing	Dr B Zulch	Selection for Masters degree
PGRD	B4790	47401	BC470374	Master of Land and Property Development Management	Ms T Mphambukeli	Selection for Masters degree
PGRD	B4780	47401	BC470447	Master of Sustainable Agriculture	Mrs M Avenant	Selection for Masters degree
PGRD	B7895	47401	BC470348	Master of Urban and Regional Planning (Research)	Ms T Mphambukeli	Selection for Masters degree
PGRD	B4760	47601	BC470422	Master of Science majoring in Computer Science and Informatics	Mr J Marais	Selection for Masters degree
PGRD	B4720	47701	BC470423	Master of Science majoring in Consumer Science	Prof.H Steyn	Selection for Masters degree
PGRD	B4738	47901	BC470417	Master of Science majoring in Astrophysics	Dr J Venter	Selection for Masters degree
PGRD	M5800	58301	BC580152	Master of Agriculture majoring in Agricultural Management	Dr A Geyer	Selection for Masters degree
PGRD	M5800	58301	BC580172	Master of Agriculture majoring in Irrigation Management	Dr A Geyer	Selection for Masters degree
PGRD	M5800	58301	BC580190	Master of Agriculture majoring in Wildlife Management	Dr A Geyer	Selection for Masters degree
PGRD	B4891	48011	BC480214	Master of Architecture (Research)	Mr J Olivier	Selection for Masters degree
PGRD	B5840	58001	BC580012	Master of Science in Agriculture majoring in Agrometeorology	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580053	Master of Science in Agriculture majoring in Agrometeorology Interdisciplinary	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580013	Master of Science in Agriculture majoring in Agronomy	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580054	Master of Science in Agriculture majoring in Agronomy Interdisciplinary	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580015	Master of Science in Agriculture majoring in Animal Science	Dr A Geyer	Selection for Masters degree
PGRD	B5830	58301	BC580329	Master of Science in Agriculture majoring in Food Sciences	Dr A Geyer	Selection for Masters degree
PGRD	B5830	58301	BC580336	Master of Science in Agriculture majoring in Grassland Science	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580041	Master of Science in Agriculture majoring in Plant Breeding	Dr B Visser	Selection for Masters degree
PGRD	B5840	58001	BC580081	Master of Science in Agriculture majoring in Plant Breeding Interdisciplinary	Dr B Visser	Selection for Masters degree
PGRD	B5840	58001	BC580042	Master of Science in Agriculture majoring in Plant Pathology	Dr B Visser	Selection for Masters degree
PGRD	B5840	58001	BC580083	Master of Science in Agriculture majoring in Plant Pathology Interdisciplinary	Dr B Visser	Selection for Masters degree
PGRD	B5840	58001	BC580044	Master of Science in Agriculture majoring in Soil Science	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580088	Master of Science in Agriculture majoring in Soil Science Interdisciplinary	Dr A Geyer	Selection for Masters degree
PGRD	B5840	58001	BC580090	Master of Science in Agriculture majoring in Wildlife	Dr A Geyer	Selection for Masters degree
PGRD	B4890	48001	BC480024	Master of Science in Construction Management	Dr B Zulch	Selection for Masters degree
PGRD	B4810	48001	BC480061	Master of Science majoring in Environmental Rehabilitation	Dr B Visser	Selection for Masters degree
PGRD	B4840	48001	BC480033	Master of Science majoring in Geography	Miss E Kruger	Selection for Masters degree
PGRD	B4840	48001	BC480044	Master of Science majoring in Soil Sciences	Miss E Kruger	Selection for Masters degree
PGRD	B5840	58401	BC480010	Master of Science majoring in Actuarial Science	Dr M von Maltitz	Selection for Masters degree
PGRD	B5840	48001	BC480011	Master of Science majoring in Agricultural Economics	Dr A Geyer	Selection for Masters degree
PGRD	B5840	48001	BC480012	Master of Science majoring in Agrometeorology	Dr A Geyer	Selection for Masters degree
PGRD	B4820	48001	BC480016	Master of Science majoring in Applied Mathematics	Mr C Venter	Selection for Masters degree
PGRD	B4840	48001	BC480017	Master of Science majoring in Astrophysics	Dr J Venter	Selection for Masters degree
PGRD	B4810	48001	BC480018	Master of Science majoring in Behavioural Genetics	Miss Z Odendaal	Selection for Masters degree
PGRD	B4810	48001	BC480019	Master of Science majoring in Biochemistry	Dr F O'Neill	Selection for Masters degree
PGRD	B4810	48001	BC480020	Master of Science majoring in Botany	Dr B Visser	Selection for Masters degree
PGRD	B4830	48001	BC490021	Master of Science majoring in Chemistry	Dr J Venter	Selection for Masters degree
PGRD	B4860	48001	BC480022	Master of Science majoring in Computer Science and Informatics	Mr J Marais	Selection for Masters degree

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
PGRD	B4890	48001	BC480024	Master of Science majoring in Construction Management	Dr B Zulch	Selection for Masters degree
PGRD	B4870	48001	BC480023	Master of Science majoring in Consumer Science	Prof.H Steyn	Selection for Masters degree
PGRD	B4810	48001	BC480020	Master of Science majoring in Entomology	Dr C Jansen van Rensburg	Selection for Masters degree
PGRD	B4810	48001	BC480029	Master of Science majoring in Food Science	Dr F O'Neill	Selection for Masters degree
PGRD	B4810	48001	BC480065	Master of Science majoring in Forensic Chemistry	Dr K Ehlers	Selection for Masters degree
PGRD	B4810	48001	BC480066	Master of Science majoring in Forensic Entomology	Dr K Ehlers	Selection for Masters degree
PGRD	B4810	48001	BC480067	Master of Science majoring in Forensic Genetics	Dr K Ehlers	Selection for Masters degree
PGRD	B4810	48001	BC480068	Master of Science majoring in Forensic Interdisciplinary	Dr K Ehlers	Selection for Masters degree
PGRD	B4810	48001	BC480030	Master of Science majoring in Forensic Sciences	Dr K Ehlers	Selection for Masters degree
PGRD	B4810	48001	BC480031	Master of Science majoring in Genetics	Mrs Z Murray	Selection for Masters degree
PGRD	B4840	48001	BC481032	Master of Science majoring in Geochemistry	Mrs J Magson	Selection for Masters degree
PGRD	B4840	48001	BC481034	Master of Science majoring in Geohydrology	Mrs J Magson	Selection for Masters degree
PGRD	B4840	48001	BC481069	Master of Science majoring in Geoinformatics	Miss E Kruger	Selection for Masters degree
PGRD	B4840	48001	BC481035	Master of Science majoring in Geology	Mrs J Magson	Selection for Masters degree
PGRD	B4880	48001	BC480036	Master of Science majoring in Grassland Sciences	Dr A Geyer	Selection for Masters degree
PGRD	B4810	48001	BC480076	Master of Science majoring in Limnology	Mrs M Avenant	Selection for Masters degree
PGRD	B4820	48001	BC480037	Master of Science majoring in Mathematical Statistics	Dr M von Maltitz	Selection for Masters degree
PGRD	B4820	48001	BC480038	Master of Science majoring in Mathematics	Mr C Venter	Selection for Masters degree
PGRD	B4820	48001	BC480016	Master of Science majoring in Mathematics and Applied Mathematics	Dr M von Maltitz	Selection for Masters degree
PGRD	B4810	48001	BC480077	Master of Science majoring in Microbial Biotechnology	Prof.K Albertyn	Selection for Masters degree
PGRD	B4810	48001	BC480039	Master of Science majoring in Microbiology	Prof.K Albertyn	Selection for Masters degree
PGRD	B4840	48001	BC480078	Master of Science majoring in Mineral Resource Management	Mrs J Magson	Selection for Masters degree
PGRD	B4830	48001	BC490040	Master of Science majoring in Physics	Dr J Venter	Selection for Masters degree
PGRD	B4880	48001	BC480023	Master of Science majoring in Plant Breeding	Dr B Visser	Selection for Masters degree
PGRD	B4810	48001	BC480082	Master of Science majoring in Plant Health Ecology	Dr B Visser	Selection for Masters degree
PGRD	B4880	48001	BC480042	Master of Science majoring in Plant Pathology	Dr B Visser	Selection for Masters degree
PGRD	B4890	48001	BC480072	Master of Science majoring in Property Science	Dr B Zulch	Selection for Masters degree
PGRD	B4890	48001	BC480043	Master of Science majoring in Quantity Surveying	Dr B Zulch	Selection for Masters degree
PGRD	B4820	48001	BC480046	Master of Science majoring in Statistics	Dr M von Maltitz	Selection for Masters degree
PGRD	B4890	48001	BC480089	Master of Science majoring in Wildlife	Dr A Geyer	Selection for Masters degree
PGRD	B4810	48001	BC480049	Master of Science majoring in Zoology	Dr C Jansen van Rensburg	Selection for Masters degree
PGRD	B4895	48001	BC480348	Master of Urban and Regional Planning (For professional registration)	Ms T Mphambukeli	Selection for Masters degree
PGRD	B5910	56601	BC590011	Doctor of Philosophy majoring in Agricultural Economics	Dr A Geyer	Selection for Doctorate degree
PGRD	B5910	56601	BC590052	Doctor of Philosophy majoring in Agricultural Management	Dr A Geyer	Selection for Doctorate degree
PGRD	B5910	56601	BC490062	Doctor of Philosophy majoring in Irrigation Management	Dr A Geyer	Selection for Doctorate degree
PGRD	B5910	56601	BC490075	Doctor of Philosophy majoring in Wildlife Management	Dr A Geyer	Selection for Doctorate degree
PGRD	B4990	49091	BC490014	Doctor of Philosophy in Architecture	Mr J Olivier	Selection for Doctorate degree
PGRD	B4920	49001	BC490010	Doctor of Philosophy majoring in Actuarial Science	Dr M von Maltitz	Selection for Doctorate degree
PGRD	B4950	49001	BC490011	Doctor of Philosophy majoring in Agricultural Economics	Dr A Geyer	Selection for Doctorate degree
PGRD	B4980	49001	BC490012	Doctor of Philosophy majoring in Agrometeorology	Dr A Geyer	Selection for Doctorate degree
PGRD	B4980	49001	BC490013	Doctor of Philosophy majoring in Agronomy	Dr A Geyer	Selection for Doctorate degree
PGRD	B4980	49001	BC490015	Doctor of Philosophy majoring in Animal Sciences	Dr A Geyer	Selection for Doctorate degree
PGRD	B4920	49001	BC490016	Doctor of Philosophy majoring in Applied Mathematics	Mr C Venter	Selection for Doctorate degree
PGRD	B4930	49001	BC490017	Doctor of Philosophy majoring in Astrophysics	Dr J Venter	Selection for Doctorate degree
PGRD	B4910	49001	BC490018	Doctor of Philosophy majoring in Behavioural Genetics	Miss Z Odendaal	Selection for Doctorate degree
PGRD	B4910	49001	BC490019	Doctor of Philosophy majoring in Biochemistry	Dr F O'Neill	Selection for Doctorate degree
PGRD	B4910	49001	BC490020	Doctor of Philosophy majoring in Botany	Dr B Visser	Selection for Doctorate degree

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
PGRD	B4930	49001	BC490021	Doctor of Philosophy majoring in Chemistry	Dr J Venter	Selection for Doctorate degree
PGRD	B4960	49001	BC490022	Doctor of Philosophy majoring in Computer Science and Informatics	Mr J Marais	Selection for Doctorate degree
PGRD	B4990	49001	BC490024	Doctor of Philosophy majoring in Construction Management	Dr B Zulch	Selection for Doctorate degree
PGRD	B4970	49001	BC490023	Doctor of Philosophy majoring in Consumer Sciences	Prof. H Steyn	Selection for Doctorate degree
PGRD	B4910	49001	BC490027	Doctor of Philosophy majoring in Entomology	Dr C Jansen van Rensburg	Selection for Doctorate degree
PGRD	B4910	49001	BC490061	Doctor of Philosophy majoring in Environmental Rehabilitation	Dr B Visser	Selection for Doctorate degree
PGRD	B4980	49001	BC490029	Doctor of Philosophy majoring in Food Science	Dr F O'Neill	Selection for Doctorate degree
PGRD	B4910	49001	BC490030	Doctor of Philosophy majoring in Forensic Science	Dr K Ehlers	Selection for Doctorate degree
PGRD	B4910	49001	BC490065	Doctor of Philosophy majoring in Forensic Chemistry	Dr K Ehlers	Selection for Doctorate degree
PGRD	B4910	49001	BC490066	Doctor of Philosophy majoring in Forensic Entomology	Dr K Ehlers	Selection for Doctorate degree
PGRD	B4910	49001	BC490067	Doctor of Philosophy majoring in Forensic Genetics	Dr K Ehlers	Selection for Doctorate degree
PGRD	B4910	49001	BC490068	Doctor of Philosophy majoring in Forensic Interdisciplinary	Dr K Ehlers	Selection for Doctorate degree
PGRD	B4910	49001	BC490031	Doctor of Philosophy majoring in Genetics	Mrs Z Murray	Selection for Doctorate degree
PGRD	B4940	49001	BC490032	Doctor of Philosophy majoring in Geochemistry	Mrs J Magson	Selection for Doctorate degree
PGRD	B4940	49001	BC490033	Doctor of Philosophy majoring in Geography	Miss E Kruger	Selection for Doctorate degree
PGRD	B4940	49001	BC490062	Doctor of Philosophy majoring in Geography and Environmental Science	Miss E Kruger	Selection for Doctorate degree
PGRD	B4940	49001	BC490034	Doctor of Philosophy majoring in Geohydrology	Mrs J Magson	Selection for Doctorate degree
PGRD	B4940	49001	BC490035	Doctor of Philosophy majoring in Geology	Mrs J Magson	Selection for Doctorate degree
PGRD	B4980	49001	BC490036	Doctor of Philosophy majoring in Grassland Science	Dr A Geyer	Selection for Doctorate degree
PGRD	B4910	49001	BC490076	Doctor of Philosophy majoring in Limnology	Mrs M Avenant	Selection for Doctorate degree
PGRD	B4920	49001	BC490037	Doctor of Philosophy majoring in Mathematical Statistics	Dr M von Maltitz	Selection for Doctorate degree
PGRD	B4920	49001	BC490038	Doctor of Philosophy majoring in Mathematics	Mr C Venter	Selection for Doctorate degree
PGRD	B4930	49001	BC490077	Doctor of Philosophy majoring in Microbial Biotechnology	Prof.K Albertyn	Selection for Doctorate degree
PGRD	B4910	49001	BC490039	Doctor of Philosophy majoring in Microbiology	Prof.K Albertyn	Selection for Doctorate degree
PGRD	B4930	49001	BC490040	Doctor of Philosophy majoring in Physics	Dr J Venter	Selection for Doctorate degree
PGRD	B4980	49001	BC490041	Doctor of Philosophy majoring in Plant Breeding	Dr B Visser	Selection for Doctorate degree
PGRD	B4910	49001	BC490082	Doctor of Philosophy majoring in Plant Health Ecology	Dr B Visser	Selection for Doctorate degree
PGRD	B4980	49001	BC490042	Doctor of Philosophy majoring in Plant Pathology	Dr B Visser	Selection for Doctorate degree
PGRD	B4990	49001	BC490085	Doctor of Philosophy majoring in Property Sciences	Dr B Zulch	Selection for Doctorate degree
PGRD	B4990	49001	BC490043	Doctor of Philosophy majoring in Quantity Surveying	Dr B Zulch	Selection for Doctorate degree
PGRD	B4980	49001	BC490044	Doctor of Philosophy majoring in Soil Sciences	Dr A Geyer	Selection for Doctorate degree
PGRD	B4920	49001	BC490046	Doctor of Philosophy majoring in Statistics	Dr M von Maltitz	Selection for Doctorate degree
PGRD	B4980	49001	BC490047	Doctor of Philosophy majoring in Sustainable Agriculture	Dr J van Niekerk	Selection for Doctorate degree
PGRD	B4980	49001	BC490048	Doctor of Philosophy majoring in Urban and Regional Planning	Ms T Mphambukeli	Selection for Doctorate degree
PGRD	B4980	49001	BC490090	Doctor of Philosophy majoring in Wildlife Management	Dr A Geyer	Selection for Doctorate degree
PGRD	B4910	49001	BC490049	Doctor of Philosophy majoring in Zoology	Dr C Jansen van Rensburg	Selection for Doctorate degree
PGRD	B4920	49101	BC490110	Doctor of Science majoring in Actuarial Science	Dr M von Maltitz	Selection for PhD
PGRD	B4950	49001	BC490111	Doctor of Science majoring in Agricultural Economics	Dr A Geyer	Selection for PhD
PGRD	B4984	49001	BC490112	Doctor of Science majoring in Agrometeorology	Dr A Geyer	Selection for PhD
PGRD	B4983	49001	BC490113	Doctor of Science majoring in Agronomy	Dr A Geyer	Selection for PhD
PGRD	B4911	49101	BC490115	Doctor of Science majoring in Animal Sciences	Dr A Geyer	Selection for PhD
PGRD	B4911	49101	BC490116	Doctor of Science majoring in Applied Mathematics	Mr C Venter	Selection for PhD
PGRD	B4911	49101	BC490117	Doctor of Science majoring in Astrophysics	Dr J Venter	Selection for PhD
PGRD	B4911	49101	BC490118	Doctor of Science majoring in Behavioural Genetics	Miss Z Odendaal	Selection for PhD
PGRD	B4911	49101	BC490119	Doctor of Science majoring in Biochemistry	Dr F O'Neill	Selection for PhD
PGRD	B4911	49101	BC490120	Doctor of Science majoring in Botany	Dr B Visser	Selection for PhD
PGRD	B4911	49101	BC490121	Doctor of Science majoring in Chemistry	Dr J Venter	Selection for PhD
PGRD	B4911	49101	BC490122	Doctor of Science majoring in Computer Science and Informatics	Mr J Marais	Selection for PhD

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC PLAN CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS
PGRD	B4911	49101	BC490124	Doctor of Science majoring in Construction Management	Dr B Zulch	Selection for PhD
PGRD	B4911	49101	BC490123	Doctor of Science majoring in Consumer Sciences	Prof. H Steyn	Selection for PhD
PGRD	B4910	49101	BC490127	Doctor of Science majoring in Entomology	Dr C Jansen van Rensburg	Selection for PhD
PGRD	B4910	49101	BC490161	Doctor of Science majoring in Environmental Rehabilitation	Dr B Visser	Selection for PhD
PGRD	B4910	49101	BC490129	Doctor of Science majoring in Food Science	Dr F O'Neill	Selection for PhD
PGRD	B4910	49101	BC490130	Doctor of Science majoring in Forensics Science	Dr K Ehlers	Selection for PhD
PGRD	B4910	49101	BC490131	Doctor of Science majoring in Genetics	Miss Z Odendaal	Selection for PhD
PGRD	B4910	49101	BC490132	Doctor of Science majoring in Geochemistry	Mrs J Magson	Selection for PhD
PGRD	B4910	49101	BC490133	Doctor of Science majoring in Geography	Miss E Kruger	Selection for PhD
PGRD	B4910	49101	BC490162	Doctor of Science majoring in Geography and Environmental Science	Miss E Kruger	Selection for PhD
PGRD	B4910	49101	BC490134	Doctor of Science majoring in Geohydrology	Mrs J Magson	Selection for PhD
PGRD	B4910	49101	BC490135	Doctor of Science majoring in Geology	Mrs J Magson	Selection for PhD
PGRD	B4910	49101	BC490136	Doctor of Science majoring in Grassland Science	Dr A Geyer	Selection for PhD
PGRD	B4910	49101	BC490176	Doctor of Science majoring in Limnology	Mrs M Avenant	Selection for PhD
PGRD	B4910	49101	BC490137	Doctor of Science majoring in Mathematical Statistics	Dr M von Maltitz	Selection for PhD
PGRD	B4910	49101	BC490138	Doctor of Science majoring in Mathematics	Mr C Venter	Selection for PhD
PGRD	B4910	49101	BC490177	Doctor of Science majoring in Microbial Biotechnology	Prof.K Albertyn	Selection for PhD
PGRD	B4910	49101	BC490139	Doctor of Science majoring in Microbiology	Prof.K Albertyn	Selection for PhD
PGRD	B4910	49101	BC490140	Doctor of Science majoring in Physics	Dr J Venter	Selection for PhD
PGRD	B4910	49101	BC490141	Doctor of Science majoring in Plant Breeding	Dr B Visser	Selection for PhD
PGRD	B4910	49101	BC490182	Doctor of Science majoring in Plant Health Ecology	Dr B Visser	Selection for PhD
PGRD	B4910	49101	BC490142	Doctor of Science majoring in Plant Pathology	Dr B Visser	Selection for PhD
PGRD	B4910	49101	BC490185	Doctor of Science majoring in Property Sciences	Dr B Zulch	Selection for PhD
PGRD	B4910	49101	BC490143	Doctor of Science majoring in Quantity Surveying	Dr B Zulch	Selection for PhD
PGRD	B4910	49101	BC490144	Doctor of Science majoring in Soil Sciences	Dr A Geyer	Selection for PhD
PGRD	B4910	49101	BC490146	Doctor of Science majoring in Statistics	Dr M von Maltitz	Selection for PhD
PGRD	B4910	49101	BC490147	Doctor of Science majoring in Sustainable Agriculture	Dr J van Niekerk	Selection for PhD
PGRD	B4910	49101	BC490190	Doctor of Science majoring in Wildlife	Dr A Geyer	Selection for PhD
PGRD	B4910	49101	BC490149	Doctor of Science majoring in Zoology	Dr C Jansen van Rensburg	Selection for PhD

QWAQWA CAMPUS

ACCESS PROGRAMMES AND EXTENDED PROGRAMMES

CAREER	PROGRAMME CODE	DEGREE CODE	ACADEMIC CODE	ENGLISH TITTLE	PROGRAMME DIRECTOR	REQUIREMENTS				
						AP	NSC % IN TUITION LANGUAGE	NSC LEVEL MATHS	NSC LEVEL PHYSICAL SCIENCE	NSC LEVEL LIFE SCIENCE
UGRD	B()430E1	43001	C4300E1	Bachelor of Science Extended Degree Mathematics and Chemistry	Mrs L Koening	24	40%	40%	40% or	40%
UGRD		43001		Bachelor of Science Extended Degree Computer Sciences and Information Technology	Mrs L Koening	24	40%	40%	40% or	40%
UGRD		43001		University Preparation Programme in Mathematics and Chemistry	Mrs L Koening	20	40%	40%	40% or	40%
UGRD		43001		University Preparation Programme in Mathematics and Computer Science	Mrs L Koening	20	40%	40%	40% or	40%
UGRD		43001		Bachelor of Science majoring in Botany and Life Sciences	Dr Emile Briedenhand	Y				
UGRD		43001		Bachelor of Science majoring in Entomology and Life Sciences	Dr Emile Briedenhand	Y				

UGRD		43001		Bachelor of Science majoring in Zoology and Life Sciences	Dr Emile Briedenhand	Y				
UGRD		43001		Bachelor of Science majoring in Chemistry and Botany	Mr Richard Ocaya	Y				
UGRD		43001		Bachelor of Science majoring in Chemistry and Entomology	Mr Richard Ocaya	Y				
UGRD		43001		Bachelor of Science majoring in Chemistry and Zoology	Dr Emile Briedenhand	Y				
UGRD		43001		Bachelor of Science majoring in Chemistry and Physics	Dr Emile Briedenhand	Y				
UGRD		43001		Bachelor of Science majoring in Environmental Geography	Dr Emile Briedenhand	Y				
UGRD				Bachelor of Science majoring in Computer Science and Chemistry	Mr Teboho Lesesa	Y				
UGRD				Bachelor of Science majoring in Computer Science and Physics	Mr Teboho Lesesa	Y				
UGRD				Bachelor of Science majoring in Computer Science and Management	Mr Teboho Lesesa	Y				
UGRD				Bachelor of Science majoring in Geography and Tourism	Dr Emile Briedenhand	Y				

BACHELOR OF HONOURS DEGREES				
2016 CODE	**CAREER**	**ENGLISH TITTLE**	**PROGRAMME DIRECTOR**	**REQUIREMENTS**
45021	PGRD	Bachelor of Science Honours majoring in Chemistry	Mr Richard Ocaya	Selections for a BScHons programme
45040	PGRD	Bachelor of Science Honours majoring in Physics	Mr Richard Ocaya	Selections for a BScHons programme
45020	PGRD	Bachelor of Science Honours majoring in Botany	Dr Emile Briedenhand	Selections for a BScHons programme
45027	PGRD	Bachelor of Science Honours majoring in Entomology	Dr Emile Briedenhand	Selections for a BScHons programme
45049	PGRD	Bachelor of Science Honours majoring in Zoology	Dr Emile Briedenhand	Selections for a BScHons programme
45065	PGRD	Bachelor of Science Honours majoring in Life Sciences	Dr Emile Briedenhand	Selections for a BScHons programme
45033	PGRD	Bachelor of Science Honours majoring in Geography	Dr Emile Briedenhand	Selections for a BScHons programme
STRUCTURED AND DISSERTATION MASTER'S DEGREES				
4792	PGRD	Master of Science majoring in Botany	Dr Emile Briedenhand	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Zoology	Dr Emile Briedenhand	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Life Sciences	Dr Emile Briedenhand	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Polymer Sciences	Mr Richard Ocaya	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Chemistry	Mr Richard Ocaya	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Physics	Mr Richard Ocaya	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Geography	Dr Emile Briedenhand	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Entomology	Dr Emile Briedenhand	Selection for a Master in Science degree
4792	PGRD	Master of Science majoring in Computer Science and Informatics	Mr Teboho Lesesa	Selection for a Master in Science degree
DOCTORATE DEGREES				
4920	PGRD	Doctor of Philosophy majoring in Botany	Dr Emile Briedenhand	Selection for PhD degree
4920	PGRD	Doctor of Philosophy majoring in Zoology	Dr Emile Briedenhand	Selection for PhD degree
4920	PGRD	Doctor of Philosophy majoring in Chemistry	Mr Teboho Lesesa	Selection for PhD degree
4920	PGRD	Doctor of Philosophy majoring in Physics	Mr Teboho Lesesa	Selection for PhD degree
4920	PGRD	Doctor of Philosophy majoring in Geography	Dr Emile Briedenhand	Selection for PhD degree

12. LEARNING PROGRAMMES AND MODULES REQUIRED

12.1 DIPLOMAS

12.1.1 ADVANCED DIPLOMA IN SUSTAINABLE AGRICULTURE IN RURAL DEVELOPMENT BC520047

LEARNING PROGRAMMES FOR AGRICULTURE AND RURAL DEVELOPMENT

The main aim of the programme is to afford students, primarily agricultural extensionists, the opportunity to acquire the necessary skills and know-how to teach, demonstrate and facilitate sustainable agriculture and rural developmental (SARD) issues and practices to the benefit of the agricultural community. The exit level outcomes reflect an integration of the specific and critical outcomes. On achieving this qualification a graduate will, within the field of SARD and agricultural extension, be able to:

(a) Manage rural structures and group dynamics.
(b) Design strategies that will create understanding of production, marketing and value adding of agricultural produce by the community.
(c) Apply sustainable plant production practices.
(d) Apply sustainable animal production practices.
(e) Conduct sound and effective communication skills and transfer of knowledge systems.

COMPULSORY YEAR 1 + 2

SARD1716/1726	Fundamentals of Rural Development	SALP1716/1726	Foundational Theories in Animal Production
SAAM1716/1726	Fundamentals of Agriculture Economics	SACT1716/1726	Basic communication skills for Sustainable Agriculture
SACP1716/1726	Foundational theories in Plant Production		

12.1.2 ADVANCE DIPLOMA IN ACTUARIAL SCIENCES BC420110 (2018 intake subject to external approval)

The objective of this programme is to offer students from mathematical disciplines from across Africa the opportunity to pursue a career in Actuarial Science. The programme is offered as a distance-learning option for advancement through UFS actuarial subjects accredited by the Actuarial Society of South Africa.

YEAR	FIRST	FIRST		SECOND	SECOND
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY	ACDE1710 ACDS1710	ACDF1526 ACDF1726	**COMPULSORY**	ACDL2815 ACDS2716	ACDF2726 ACDL2726

12.2 LEARNING PROGRAMMES FOR ACCESS AND EXTENDED CURRICULUM PROGRAMMES (SOUTH CAMPUS)

Students who do not comply with the Faculty of Natural and Agricultural Sciences entry requirements for main stream BSc studies can gain admission to the university through the University Preparation Programme (UPP) or the BSc Extended Curriculum Programmes. The programme provides students with an opportunity to improve their skills and competencies with aim of gaining access to mainstream studies after successful completion of the first year. These programmes also addresses, through a course in Skills and Competencies in Lifelong Learning, the student's wider needs with regards to quality of personal life, study and reading skills, self-assertiveness, problem solving, and other generic competencies. These students also attend an academic language course in English to improve their reading and writing skills for higher education purposes.

UNIVERSITY PREPARATION PROGRAMMES 40001, 50001(4002,5002)

LEARNING PROGRAMMES FOR UNIVERSITY PREPARATION PROGRAMMES

12.2.1 NATURAL SCIENCES 40001(4002) (CHEMISTRY / MATHEMATICS)

YEAR			Semester 1	Semester 2
1	**Academic Modules**	Mathematics Chemistry Biology Computer Science	MATD1554 OR MATD1534 CHEM1552 + CHEM1532 BLGY1513	MATD1564 OR MATD1544 CHEM1622 + CHEM1642 BLGY1643
	Development Modules	Academic language course Computer Literacy Life-long Learning – Natural Sciences	EALN1508 CSIL1551 SCNS1508	
	After successful completion of ALL THE MODULES in the first year of the BSc Four-year Curriculum (Extended Programme) with an average of 60 % for Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/ Qwaqwa campus set out in the Faculty's Rule Book. Students must take note of the following requirements: • Students must pass all academic modules in the June examination to continue their studies in the second semester • To register for CHEM1622 students must have passed CHEM1552 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1552 and MATD1554 or level 4 for NSC or NCV Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have have a level 4 for NSC or NCV Mathematics. • To register for MATD1544 students must have passed MATD1534 Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.			
2	In their second year of study students have to register for CHEM1551, CHEM1661 and CSIL1521 as well as all the first year main fields of study modules in the learning programme of choice as set out in the Faculty Rule Book. Students must take note of the following requirements: • To register for CHEM1551 students must have passed CHEM1622 + CHEM1642 as well as MATD1564 or MATD1534. • To register for CHEM1661, students must have passed CHEM1551. • The modules CHEM1552, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1661 must be passed to get recognition for CHEM1513+ CHEM1551 and CHEM1624/CHEM1644. • BLGY1513, BLGY1643 will be recognised as mainstream modules in the following academic year. • BLGY4153 and CSIQ1531to get recognition for CSIL1511. (See BSc main fields of study learning programmes).			
3	**Follow <u>second year</u> learning programme of choice in the Faculty Rule Book.** Students must take note of the following requirement: • Students must have pass CHEM1551, CHEM1661 and CSIL1521 to be allowed to change to the programme code of current study.			
4	**Follow the <u>third year</u> learning programme of choice as set out in the Faculty Rule Book.**			

12.2.2 AGRICULTURAL SCIENCES 50001(5002) (AGRICULTURAL MODULES)

		Semester 1	Semester 2
1	Agricultural Economics Biological principles in Agriculture Introduction to Animal Wildlife and Grassland Sciences	AGEC1514 AGRI1514	AGEC1624 ANIG1624
	Academic language skills course English or Afrikaans Computer Literacy Life-long Learning Mathematical Literacy in Agriculture	EALN1508 or AGAN1508 CSIL1551 SCLL1508 MTDA1508	
	After successful completion of ALL THE MODULES in the first year of the UPP AGRIC Sciences with an average of 55 % for the Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/Qwaqwa campus set out in the Faculty's Rule Book. Students must take note of the following requirements: • Students must pass all academic modules in the June examination to continue their studies in the second semester Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.		
2	**Follow the main fields of study <u>first year</u> BAgric Learning Programme of choice as set forth in the Faculty Rule Book.** • The modules AGEC1514, AGRI1514, will be recognised as mainstream modules in the following academic year. • CSIL1551 must be passed to get recognition for CSIL1511. (See BSc main fields of study learning programmes).		
3	**Follow <u>second year</u> BAgric Learning Programme of choice as set forth in the Faculty Rule Book.**		
4	**Follow the <u>third year</u> BAgric Learning Programme of choice as set forth in the Faculty Rule Book.**		

EXTENDED CURRICULUM PROGRAMMES

LEARNING PROGRAMMES FOR EXTENDED CURRICULUM PROGRAMMES

12.2.3 BSc AGRICULTURE FIVE-YEAR BC5480E1 SOUTH CAMPUS

Year		Semester 1	Semester 2
1	Mathematics Chemistry Biology Introduction to Programming	MATD1554 OR MATD1534 CHEM1552 + CHEM1532 BLGY1513	MATD1564 OR MATD1544 CHEM1622 +CHEM1642 BLGY1643
	Academic language course Life-long Learning – Natural Sciences Computer Literacy	EALN1508 SCNS1508 CSIL1551	
	After successful completion of ALL THE MODULES in the first year of the BSc Five-year Curriculum (Extended Programme) with an average of 60 % for Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/Qwaqwa campus set out in the Faculty's Rule Book. • Students must pass all academic modules in the June examination to continue their studies in the second semester • To register for CHEM1622 students must have passed CHEM1552 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1552 and MATD1554 or level 4 for NSC or NCV Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have a level 4 for NSC or NCV Mathematics. • To register for MATD1544 students must have passed MATD1534 Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.		
2	In their second year of study students have to register for CHEM1551, CHEM1661 and CSIL1521 as well as all the first year main fields of study modules in the learning programme of choice as set out in the Faculty Rule Book. Students must take note of the following requirements: • To register for CHEM1551 students must have passed CHEM1622 + CHEM1642 as well as MATD1564. • To register for CHEM1661, students must have passed CHEM1551. • The modules CHEM1552, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1661 must be passed to get recognition for CHEM1513+ CHEM1551 and CHEM1624/CHEM1644. • BLGY1513 must be passed to get recognition for BLGY4153 and CSIQ1531to get recognition for CSIL1511. (See BSc main fields of study learning programmes).		
3	**Follow main fields of study second year BSc learning programme of choice as set out in the Faculty Rule Book.** Students must take note of the following requirement: • Students must have passed CHEM1551, CHEM1661 and CSIL1521 to be allowed to change to the programme code of current study.		
4	**Follow main fields of study third year BSc learning programme of choice as set out in the Faculty Rule Book.**		
5	**Follow main fields of study fourth year BSc learning programme of choice as set out in the Faculty Rule Book.**		

12.2.4 B AGRICULTURE FOUR-YEAR BC5300E1 SOUTH CAMPUS

		Semester 1	Semester 2
1	Agricultural Economics Biological principles in Agriculture Introduction to Animal Wildlife and Grassland Sciences	AGEC1514 AGRI1514	AGEC1624 ANIG1624
	Academic language skills course English or Afrikaans Computer Literacy Life-long Learning Mathematical Literacy in Agriculture	EALN1508 or AGAN1508 CSIL1551 SCLL1508 MTDA1508	
	After successful completion of ALL THE MODULES in the first year of the BSc Four-year Curriculum (Extended Programme) or the UPP AGRIC Sciences with an average of 55 % for the Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/Qwaqwa campus set out in the Faculty's Rule Book. The student register for the 50901-50907 learning programme code. • Students must pass all academic modules in the June examination to continue their studies in the second semester Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.		
2	**Follow the main fields of study first year BAgric Learning Programme of choice as set forth in the Faculty Rule Book.** • The modules AGEC1514, AGRI1514, will be recognised as mainstream modules in the following academic year. • CSIL1551 must be passed to get recognition for CSIL1511. (See BSc main fields of study learning programmes).		
3	**Follow the main fields of study second year BAgric learning programme of choice as set forth in the Faculty Rule Book.**		
4	**Follow the main fields of study third year BAgric learning programme of choice as set forth in the Faculty Rule Book.**		

12.2.5 BSc FOUR-YEAR BC4300E1 (MATHEMATICS AND CHEMISTRY)

Year		Semester 1	Semester 2
1	Mathematics Chemistry Biology Introduction to Programming	MATD1554 OR MATD1534 CHEM1552 + CHEM1532 BLGY1513	MATD1564 OR MATD1544 CHEM1622 +CHEM1542 BLGY1643
	Academic language course Life-long Learning – Natural Sciences Computer Literacy	EALN1508 SCNS1508 CSIL1551	
	After successful completion of ALL THE MODULES in the first year of the BSc Four-year Curriculum (Extended Programme) with an average of 60 % for Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/Qwaqwa campus set out in the Faculty's Rule Book. Students must take note of the following requirements: • Students must pass all academic modules in the June examination to continue their studies in the second semester • To register for CHEM1622 students must have passed CHEM1552 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1552 and MATD1554 or level 4 for NSC or NCV Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have have a level 4 for NSC or NCV Mathematics. • To register for MATD1544 students must have passed MATD1534 Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.		
2	**In their second year of study students have to register for CHEM1551, CHEM1661 and CSIL1521 as well as all the first year main fields of study modules in the learning programme of choice as set out in the Faculty Rule Book.** Students must take note of the following requirements: • To register for CHEM1551 students must have passed CHEM1622 + CHEM1642 as well as MATD1564. • To register for CHEM1661, students must have passed CHEM1551. • The modules CHEM1552, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1661 must be passed to get recognition for CHEM1513+ CHEM1551 and CHEM1624/CHEM1644. • BLGY1513 must be passed to get recognition for BLGY1513 (Bloemfontein campus) and CSIL1551 to get recognition for CSIL1511. (See BSc main fields of study learning programmes).		
3	**Follow second year learning programme of choice in the Faculty Rule Book.** **Students must take note of the following requirement:** • Students must have pass CHEM1551, CHEM1661 and CSIL1521 to be allowed to change to the programme code of current study.		
4	**Follow the third year learning programme of choice as set out in the Faculty Rule Book.**		

12.2.6 BSc FOUR-YEAR BC4300E2 (MATHEMATICS AND FINANCES)
(SOUTH CAMPUS)
(Note: This programme is only presented in English)

Year		Semester 1	Semester 2
1	Mathematics Introduction to Programming Accounting or Introduction to human resource management Introduction to individual differences Economics	MATD1554 OR MATD1534 **TWO OF THE FOLLOWING:** EACC1614 **OR** EFHR1515 OR EFEC2614 **OR** EBCS2514	MATD1564 OR MATD1544 CSIS1564 **TWO OF THE FOLLOWING:** EACC1624 **OR** EFIO1525 EFEC2624 **OR** EBCS2524
	Academic language course Life-long Learning – Natural Sciences Computer Literacy	EALN1508 SCNS1508 CSIL1551	
	After successful completion of ALL THE MODULES in the first year of the BSc Four-year Curriculum (Extended Programme) with an average of 60 % for Academic modules, the student changes to the first year main fields of study modules of the learning programme of his/her choice on the Bloemfontein/Qwaqwa campus set out in the Faculty's Rule Book. Students must take note of the following requirements: • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have a level 4 for NSC or NCV Mathematics. • To register for MATD1544 students must have passed MATD1534 Students who could not complete the first two years of study in three years will not be allowed for re-registration to the Faculty of Natural and Agricultural Sciences.		
2	**In their second year of study students have to register for CSIL1521 as well as all the first year main fields of study modules in the learning programme of choice as set out in the Faculty Rule Book.**		
3	**Follow main fields of study second year learning programme of choice in the Faculty Rule Book.**		
4	**Follow main fields of study third year learning programme of choice in the Faculty Rule Book.**		

12.3 LEARNING PROGRAMMES FOR BACHELOR'S DEGREES (NQF EXIT LEVEL 7 & 8)

12.3.1 BACHELOR OF ARCHITECTURE BC430114

The Bachelor of Architecture involves full-time education that extends over six semesters and involves lectures, projects, and continuous assessment.

The purpose of this programme is to educate students who may register in the appropriate category for which they qualify with the South African Council for the Architectural Profession in terms of the provisions of the Architectural Profession Act 44 of 2000. The degree BArch provides access to the BArchHons degree.

Students are strongly advised to work in an architect's office or other approved similar institution during holidays in order to gain practical experience.

The assessments and examinations for the degree BArch are recognised by the minister concerned in terms of the provisions of the Architectural Profession Act (Act 44 of 2000). Training experience after completion of the BArch degree will be controlled by the conditions of the South African Council for the Architectural Profession. The registrar of this Council will provide information in this regard.

2016 CODE	40114	40114
YEAR		**FIRST**
SEMESTER	**FIRST**	**SECOND**
COMPULSORY YEAR	DESN1500 Design CONS1506 Construction HARC1504 History of Architecture PTEC1504 Presentation Techniques	
COMPULSORY SEMESTER	TRIG1512 Trigonometrical Drawing	PHOT1522 Photography
	UFS101 *EALN1508 or AGAN1508	
YEAR	**SECOND**	
SEMESTER	**FIRST**	**SECOND**
	DESN2600 Design CONS2606 Construction HARC2604 History of Architecture CDRA2604 Computer Draughting CSCR2604 Construction Science TARC2604 Theory of Architecture	
YEAR		**THIRD**
SEMESTER	**FIRST**	**SECOND**
	DESN3700 Design CONS3706 Construction HARC3704 History of Architecture TARC3704 Theory of Architecture CCMR3704 Building Contracts Law CSCR3704 Construction Science	

12.3.2 BACHELOR OF AGRICULTURE

12.3.2.1 MANAGEMENT SPECIALISATION Fields of study BC530101-BC530104, BC530172, BC530190

LEARNING PROGRAMMES FOR MANAGEMENT SPECIALISATION

The objective of the degree and different learning programmes is to train students to apply agricultural knowledge practically on farm level as well as in agriculturally-related organisations. The BAgric qualification will allow persons to apply their knowledge in the fields of resource utilisation, agricultural production, processing, management and communication.

Learning programmes in this Field of study offer six options. These learning programmes will lead to one of the following qualifications: BAgric Irrigation Management, Animal Production Management, Mixed-farming Management, Crop Production Management, Agricultural Management or Wildlife Management. The programmes consist of the combination of two majors, e.g. combined with management subjects. The table below indicates the combinations for the different qualifications. Each student includes all the compulsory modules (row C1) from the prescribed disciplines for all three study years. Students must select sufficient other modules (other science subjects as supportive electives) from the compulsory row of any other discipline or from their own electives (E) to obtain a total of at least 120 credits for each of the first, the second and the third year of study.

DISCIPLINE	IRRIGATION MANAGEMENT	ANIMAL PRODUCTION MANAGEMENT	MIXED FARMING MANAGEMENT	WILDLIFE MANAGEMENT	CROP PRODUCTION MANAGEMENT	AGRICULTURAL MANAGEMENT	IRRIGATION MANAGEMENT	ANIMAL PRODUCTION MANAGEMENT	MIXED FARMING MANAGEMENT	WILDLIFE MANAGEMENT	CROP PRODUCTION MANAGEMENT	AGRICULTURAL MANAGEMENT
2017 CODE	**BC530172**	**BC530101**	**BC530103**	**BC530190**	**BC530102**	**BC530152**	**BC530172**	**BC530101**	**BC530103**	**BC530190**	**BC530102**	**BC530152**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1514 AGRI1534 AGRI1554 AGEC1514	AGRI1624 AGRI1664 SCCS1624 ANIG1624	AGRI1624 AGRI1664 SCCS1624 ANIG1624	AGRI1624 AGRI1664 SCCS1624 ANIG1624	AGRI1624 AGRI1664 SCCS1624 ANIG1624	AGRI1624 AGRI1664 SCCS1624 ANIG1624	AGRI1624 AGRI1664 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
C2	CROP2614 SOIL2614 AGEC2614 CLIM2614	SOIL2614 AGEC2614 ANIG2614 GRAS2614	CROP2614 AGEC2614 ANIG2614 **ONE OF:** SOIL2614 CLIM2614 GRAS2614	SOIL2614 AGEC2614 ANIG2614 GRAS2614	CROP2614 SOIL2614 AGEC2614 CLIM2614	AGEC1634 AGEC2614 ANIG2614 CROP2614	CROP2624 SOIL2624 AGEC1624 AGEG2624	AGEC1624 AGEC2624 WDMT2624 ANIG2624	AGEC1624 CROP2624 ANIG2624 **ONE OF:** CLIM2624 SOIL2624 AGEG2624	SOIL2624 AGEC1624 WDMT2624 ANIG2624	CROP2624 SOIL2624 AGEC1624 **ONE OF:** CLIM2624 AGEG2624	AGEC1624 AGEC2624 CROP2624 ANIG2624
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
C3	CROP3714 SOIL3714 AGEG3714 **ONE OF:** AGMA3714 AGMA3734	ANIG3714 ANIG3734 GRAS3714 **ONE OF:** AGMA3714 AGMA3734	CROP3714 **ONE OF:** ANIG3714 ANIG3734 **ONE OF:** SOIL3714 GRAS3714 WDMT3714 **ONE OF:** AGMA3714 AGMA3734	GRAS3714 ANIG3714 WDMT3714 **ONE OF:** AGMA3714 AGMA3734	CROP3714 SOIL3714 CLIM3714 **ONE OF:** AGMA3714 AGMA3734	AGMA3714 AGMA3734 CROP3714 **ONE OF:** ANIG3714 ANIG3734	CROP3724 SOIL3724 AGEG3724 AGMA3762 **ONE OF:** AGMA3724 AGMA3744	ANIG3724 ANIG3744 AGMA3762 GRAS3724 **ONE OF:** AGMA3724 AGMA3744	CROP3724 AGMA3762 **ONE OF:** AGMA3724 AGMA3744 **ONE OF:** ANIG3724 ANIG3744 **ONE OF:** SOIL3724 GRAS3724	GRAS3724 AGMA3762 **TWO OF:** ANIG3724 ANIN3744 WILD3764 **ONE OF:** AGMA3724 AGMA3744	CROP3724 SOIL3724 CLIM3724 AGMA3762 **ONE OF:** AGMA3724 AGMA3744	AGMA3724 AGMA3744 AGMA3762 **ONE OF:** CROP3724 ANIG3724 ANIG3744

12.3.2.2 AGRICULTURAL ECONOMICS BC530111

LEARNING PROGRAMMES FOR AGRICULTURAL ECONOMICS

The objective of the degree is to train students to apply agricultural knowledge practically on the farm level as well as in agriculturally-related organisations. The BAgric qualification will allow persons to apply their knowledge in the fields of resource utilisation, agricultural production, processing, management and communication.

Learning programmes in this Field of study offer ONE option. Each student includes all the compulsory modules (row C1) from the prescribed disciplines for all three study years. Students must select sufficient other modules (other science subjects as supportive electives) from the compulsory row of any other discipline or from their own electives (E) to obtain a total of at least 120 credits for each year of study.

YEAR	FIRST	FIRST		SECOND	SECOND		THIRD	THIRD
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY C1	AGEC1634 LMER1514 EACC1614 AGEC1514	AGRI1624 EBUS1624 LMER1524 AGEC1624		AGEC2614 EBUS1614 AGMA3734	AGEC2624 AGEG2624		AGEC3714 AGEC3734 AGMA3714	AGEC3724 AGEC3744 AGMA3724 AGMA3762
ELECTIVES		**ONE OF:** ANIG1624 SCCS1624		**ONE OF:** CROP2614 SOIL2614 ANIG2614 GRAS2614 EBEL2614	**TWO OF:** ANIG2624 CROP2624 SOIL2624 WDMT2624		**ONE OF:** ANIG3714 CROP3714 EBEL2708 GRAS3714 SOIL3714 WDMT3714	**ONE OF:** ANIG3724 CROP3724 GRAS3724 SOIL3724
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521						

12.3.3 BACHELOR OF COMPUTER INFORMATION SYSTEMS BC430156

LEARNING PROGRAMMES IN COMPUTER INFORMATION SYSTEMS

Students need to enrol for all the compulsory modules (C1, C2, C3) for all three study years. Students may also select elective modules (E1, E2).

YEAR	FIRST			SECOND			THIRD	
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY C1	BCIS1513 CSIS1614 EBCS1514 EBUS1514 EHRM1514	BCIS1623 CSIS1624 EBCS1524 EIOP1524	**C2**	BCIS2614 CSIS2634 EBUS1614	BCIS2624 CSIS2624 EBUS1624 ELRM2624 ENOV2624	**C3**	BCIS3714 CSIS3714 EBUS2714 EBUS2715	CSIS3724 CSIS3744 ESBM2724 EBMA3725
ELECTIVES E1		CSIS1683	**E2**		CSIS2642			
REQUIRED ***if NBT < 65%***	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1521						

12.3.4 BACHELOR OF CONSUMER SCIENCE BC430123

LEARNING PROGRAMMES FOR CONSUMER SCIENCE

Consumer science is a study of the need of man regarding housing, clothing and food and the management of resources to satisfy these needs. After completion of this programme, the B Consumer Science student will be capable of following a career as a Consumer Scientist, e.g. consumer consultant, designer, buyer, marketer, or quality control inspector of consumer products. The student should also be capable of advising consumers on the management of time, energy and other resources. The major subjects are Foods, Consumer Science and Textiles. **Learning programmes in the CONSUMER SCIENCE Field of study offer two options.** Each student includes all the compulsory modules (row C1) from the prescribed disciplines for all three study years and selects sufficient other modules (other science subjects as supportive electives) from the compulsory row to obtain a total of at least 120 credits for each year of study.

	GENERAL						FOOD					
YEAR	**FIRST**		**SECOND**		**THIRD**		**FIRST**		**SECOND**		**THIRD**	
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY **C1**	CNFD1532 CNST1534 CNCS1634 EBUS1614 AGEC1514	CNCS1622 CNST1644 CNCS1624 EBUS1624	CNFD2614 CNST2614 MCBH2614 CNCS2612	CNFD2624 CNCS2624 MCBH2624 FSCC2644	CNST3712 CNCS3732 CNFD3713 CNFD3732 NUTE3714	CNFD3744 CNST3722 CNCS3724 **ONE OF:** CNCS3744 CNST3744 EBMA2624 ESBM2724	CNFD1532 NUTE1514 CNCS1634 EBUS1614 AGEC1514	CNCS1622 NUTE1524 EBUS1624 EBMA2624	NUTE2614 CNFD2614 MCBH2614 CNCS2612	NUTE2624 CNFD2624 MCBH2624 FSCS2644	FSME3714 CNCS3732 CNFD3713 CNFD3732 NUTE3714	FSME3724 CNFD3744 CNCS3724 ESBM2724
ELECTIVES E					**ONE OF:** CNST3734 CNST3754 EBUS2714							
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521					CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521				

12.4 LEARNING PROGRAMMES FOR BACHELOR OF SCIENCE DEGREES (NQF Exit Level 7 & 8)

12.4.1 BACHELOR OF SCIENCE

12.4.1.1 BACHELOR OF SCIENCE BC43XXYY

LEARNING PROGRAMMES FOR BACHELOR OF SCIENCE GENERAL

Each student includes 120 credits per year for three years. In planning their degree they need to consider the prerequisite for the second-year and third-year modules. They can only take modules that do not clash on the official timetable. This degree makes provision for one major with at least 60 NQF Exit Level 7 credits in that major and a combination of different related modules for at least 60 credits also at NQF Exit Level 7.

YEAR	FIRST			SECOND			THIRD	
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY **C1**	**60 CREDITS OF** BLGY1513 CHEM1513+ CHEM1551 PHYS1514 OR PHYS1534 MATM1614 OR MATM1534 GLGY1614	**60 CREDITS OF** BLGY1623 OR BLGY1643 OR BLGY1663 OR BLGY1683 CHEM1623 + CHEM1661 OR CHEM1643+CHEM1661 PHYS1624 OR PHYS1644 MATM1624 OR MATM1544 GLGY1624	C2	**60 CREDITS OF** BOCB2616 CHEM2613+CHEM2611 CHEM2633+ CHEM2631 ZLGY2616 PHYS2614+ PHYS2632 GENE2616 MCBP2616 BTNY2616 MATM2614 MATA2634 MATM2654 ENTO2616 FSCI2613+FSCC2613 GEOP2614 GEOH2614	**60 CREDITS OF** BOCE2626 CHEM2623+ CHEM2621+CHEM2643+ CHEM2641 ZLGY2626 PHYS2624+PHYS2642 GENE2626 MCBP2626 BTNY2626+BTNY2622 MATM2624 MATA2644 MATM2664 ENTO2626 FSCC2622+FSCS2624 GEOP2624 GISC2624 GEOH2624	C3	**60 CREDITS OF** BOCM3714+BOCE3714 CHEM3713+CHEM3711+ CHEM3733+ CHEM3731 ZLGY3714+ZLGY3734 PHYS3714+PHYS3732+PHYS3752 FORS3734+GENE3734 MCBG3714 BTNY3714+BTNY3702 BTNY3734+BTNY3754 ENTO3714+ENTO3734 FSCA3714+FSCE3714 GEOH3714 GEOP3714	**60 CREDITS OF** BOCP3724+BOCS3724 CHEM3723+ CHEM3721+CHEM3743 + CHEM3741 ZLGY3724+ZLGY3744 PHYS3724+PHYS3742+PHYS3762 GENE3724+GENE3744 MCBM3724+MCBP3724 or MCBC3724 BTNY3724+BTNY3744 ENTO3724+ENTO3744 FSCP3724+FSCB3724 GEOP3724 GISC3724
REQUIRED *if NBT < 65%	CSIL1511 UFS101 EALN1508 OR AGAN1508	CSIL1521						

12.4.1.2 BACHELOR OF SCIENCE MAJORING IN ACTUARIAL SCIENCE BC431000

LEARNING PROGRAMMES IN ACTUARIAL SCIENCES

Students need to include all the compulsory modules for each year.

YEAR	FIRST			SECOND			THIRD	
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY C1	MATM1614 STSM1614 ACSF1513 EECF1614 ACSG1614	MATM1624 STSM1624 EECF1624 ACSF1523 CSIS1683	C2	ACSF2716 MATM2614 STSM2616 EMIC2714	ACSF2746 MATA2644 STSM2626 EMAC2724 MATM2664	C3	ACSL3706 ACSF3706 ACSS3716 STSM3714 STSM3734	STSM3724 STSM3744
ELECTIVE				MATM2654				
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALE1508 or AGAM1508	CSIL1521						

12.4.1.3 BACHELOR OF SCIENCE MAJORING IN AGRICULTURAL ECONOMICS BC431100

LEARNING PROGRAMMES FOR AGRICULTURAL ECONOMICS

The objective is to train scientists who, through research and practically orientated development, can promote a scientific subject in particular or agricultural science in general. After acquiring the BScAgriculture qualification, the person will have the following skills, e.g. problem identification and aim formulation, collecting and verification of data, systematisation and interpretation of data, effective communication of information and making recommendations.

Learning programmes in this Field of study offer ONE option. Each student includes all the compulsory modules (row C1) from the prescribed disciplines for all three study years. Students must select sufficient other modules (other science subjects as supportive electives) from the compulsory row of any other discipline or from their own electives (E) to obtain at least 120 credits for each year of study.

YEAR	FIRST			SECOND			THIRD	
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY	MATM1534	AGEC1624	C2	AGEC2614	AGEC2624	C3	AGEC3714	AGEC3724
C1	EBCS1514	MATM1544		EECF1614	STSA2626		AGEC3734	AGEC3744
	BLGY1513	STSA1624		STSA2616	CSIS1683		STSA3716	AGEC3721
	AGEC1514				EECF1624			STSA3726
ELECTIVE		**ONE OF:**		**ONE OF:**	**ONE OF:**		**ONE OF:**	**ONE OF:**
		SCCS1624		CROP2614	CROP2624		CROP3714	CROP3724
		ANIG1624		SOIL2614	ANIG2624		ANIG3714	ANIG3724
		BLGY1643		ANIG2614	SOIL2624		ANIG3734	SOIL3724
				GRAS2614			SOIL3714	GRAS3724
							GRAS3714	ANIG3744
REQUIRED	CSIL1511	CSIL1521						
	UFS101							
*if NBT < 65%	*EALN1508 or AGAN1508							

12.4.1.4 BACHELOR OF SCIENCE IN CONSUMER SCIENCE BC432300

LEARNING PROGRAMMES FOR CONSUMER SCIENCE

After completion of the BSc Consumer Science programme the student will be capable to follow a career in the food industry. The major subjects are Foods and Food Science. **Learning programmes in the CONSUMER SCIENCE Field of study offer one option,** that takes four years and exits at at NQF Exit Level 8. Each student includes all the compulsory modules (row C1) from the prescribed disciplines for all three study years and select sufficient other modules (other science subjects as supportive electives) from the compulsory row to obtain a total of at least 120 credits for each year of study.

YEAR	FIRST		SECOND		THIRD		FOURTH	
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY	BLGY1513	BLGY1643	BOCH2614	EBMA2624	CNFD3713	CNFD3744	CNCS4809	Select 76 credits from CNCS4824
C1	CHEM1513+ CHEM1551	BLGY1683	MCBP2616	CNFD2624	CNFD3732	FSCP3724	Select 76 credits from CNCS4814	FSCG4826
	PHYS1534	CHEM1643+CHEM1661	CNFD2614	FSCS2624	NUTE3714	CNCS3724	CNFD4808	
	CNFD1532	STSA1624	FSCI2613	FSCC2622	FSCA3714	FSCB3724	NUTE4808/NUTE6808	
		CNCS1622	FSCC2613		CNCS3732		FSCP4814	
							FSCD4814	
							FSCM4814	
REQUIRED	CSIL1511	CSIL1521						
*if NBT < 65%	UFS101							
	*EALN1508 OR AGAN1508							

12.4.1.5 BACHELOR OF SCIENCE MAJORING IN BIOLOGICAL SCIENCES

BIOLOGICAL SCIENCES Fields of study 1: BC4319*20, 27, 31, 39, 49;* BC4320*27, 31, 39, 49;* BC4327*31, 39, 49*; BC4331*39, 49*

LEARNING PROGRAMMES BIOLOGICAL SCIENCES Fields of study 1

Learning programmes in the BIOLOGICAL Field of study 1 offer 15 options with a combination of any two of the six disciplines. Learning programmes consist of the combination of any two majors, e.g. Biochemistry and Botany (BC431920), Biochemistry and Entomology(BC431927), Biochemistry and Genetics (BC431931), Biochemistry and Microbiology (BC431939), Biochemistry and Zoology(BC431949), Botany and Entomology(BC432027), Botany and Genetics(BC432031), Botany and Microbiology (BC432039), Botany and Zoology (BC432049) Entomology and Genetics(BC432731), Entomology and Microbiology(BC432739), Entomology and Zoology (BC432749), Genetics and Microbiology(BC433139) Genetics and Zoology(BC433149) Microbiology and Zoology(BC433949).

Students SELECT TWO DISCIPLINES and include all the compulsory modules in row (C1, C2, and **C3) of each of the selected disciplines for all three study years. Students need to SELECT enough modules per semester from the compulsory row (C1, C2, and C3) of any other discipline or from the elective row (E) for their selected disciplines to obtain at least 120 credits for each study year.**

DISCIPLINE	BIOCHEMISTRY	MICROBIOLOGY	GENETICS	BOTANY	ENTOMOLOGY	ZOOLOGY	BIOCHEMISTRY	MICROBIOLOGY	GENETICS	BOTANY	ENTOMOLOGY	ZOOLOGY
2017 CODE	BC4319XX	BC4339XX	BC4331XX	BC4320XX	BC4327XX	BC4349XX	BC4319XX	BC4339XX	BC4331XX	BC4320XX	BC4327XX	BC4349XX
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 **OR** AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 **OR** AGAN1508	CSIL1511 UFS101 *EALN1508 **OR** AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1521	CSIL1521	CSIL1521	CSIL1521	CSIL1521	CSIL1521
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	BOCB2616	MCBP2616 BOCB2616	GENE2616	BTNY2616	ENTO2616	ZLGY2616	BOCE2626	MCBP2626 BOCE2626	GENE2626	BTNY2626 BTNY2622	ENTO2626	ZLGY2626
ELECTIVES	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 PHBG2616 FSCI2613+ FSCC2613 MATM2614	MCBP2616 CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 FSCI2613+ FSCC2613	PHBG2616		CROP2614 PLTB2613		CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 PHBG2626 FSCC2622+ FSCS2624	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 FSCC2622+ FSCS2624	PHBG2626		CROP2624 PLTB2623	
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	BOCM3714 BOCE3714	MCBG3714 MCBP3714	GENE3714 GENE3734	BTNY3702 **TWO OF** BTNY3714 BTNY3734 BTNY3754	ENTO3714 + ENTO3734 **OR** ENTO3754	ZLGY3714 ZLGY3734	BOCP3724 BOCS3724	MCBM3724 MCBC3724	GENE3744 GENE3764	BTNY3724 BTNY3744	ENTO3724+ ENTO3 744	ZLGY3724 ZLGY3744
ELECTIVES					CROP3714 PPLG3714 PLTB3714				GENE3724 HMBG3724		CROP3724 PPLG3724 PLTB3724	

BIOLOGICAL SCIENCES Fields of study 2: BC433118, BC433130, BC433180

LEARNING PROGRAMMES IN BIOLOGICAL SCIENCES Fields of study 2

Learning programmes in the BIOLOGICAL SCIENCES Fields of study 2 offer 4 options with a Behavioural Genetics (Genetics and Psychology), Human Molecular Biology, Forensics Sciences or Genetics & Physiology. Students **select one of the options** and include all the compulsory modules in row (C1, C2, and C3) of each of the selected disciplines for all three study years. Students need to SELECT enough elective modules per semester from the compulsory row (C1, C2, and C3) of any other discipline or from the elective row (E) for their selected disciplines to obtain at least 120 credits for each study year.

DISCIPLINE	**BEHAVIOURAL GENETICS**	**FORENSIC SCIENCES**	**GENETICS & PHYSIOLOGY**	**BEHAVIOURAL GENETICS**	**FORENSICS SCIENCES**	**GENETICS & PHYSIOLOGY**
2017 CODE	**BC433118**	**BC433031**	**BC433180**	**BC433118**	**BC433031**	**BC433180**
YEAR	**FIRST**			**FIRST**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C1	BLGY1513 CHEM1513+CHEM1551 PSIN1514 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+CHEM1551 PHYS1534 **OR** PHYS1514 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	PSDE1624 BLGY1623 BLGY1663 BLGY1683 STSA1624 CHEM1623+CHEM1661 **OR** CHEM1643+CHEM1661	BLGY1623 BLGY1663 CHEM1623+CHEM1661 PHYS1644 **OR** PHYS1624 MATM1544	BLGY1623 BLGY1643 BLGY1663 BLGY1683 CHEM1643+CHEM1661 STSA1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1521	ANBG1524	CSIL1521
YEAR	**SECOND**			**SECOND**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C2	GENE2616 PSSO2614	FORS2616 GENE2616	GENE2616 PHBG2616	GENE2626 PSIH2724	FORS2626 GENE2626	GENE2626 PHBG2626
ELECTIVES (E)	ZLGY2616 PHBG2616	CHEM2613+CHEM2611 CHEM2633+CHEM2631 ENTO2616 ANBG2616	BOCB2616 ZLGY2616 MCBP2616	ZLGY2626 PHBG2626	CHEM2623+CHEM2621 CHEM2643+CHEM2641 ENTO2626 ANBG2626	BOCE2626 ZLGY2626 MCBP2626
YEAR	**THIRD**			**THIRD**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C3	GENE3714 GENE3734 PSPA3714 PSRM3714	FORS3714 FORS3734	GENE3714 GENE3734 PHBG3716 PHBN3712	GENE3764 GENE3744 PSPE3724 PSTH3724	FORS3724 FORS3744	GENE3764 GENE3744 PHBG3726 PHBE3722
ELECTIVES (E)	ZLGY3714 ZLGY3734 PHBG3716 PHBN3712 HMBG3714	GENE3714+GENE3734 CHEM3713+CHEM3711 + CHEM3733+CHEM3731 ENTO3714+ENTO3734 ANBA3716+ANBT3704		ZLGY3724 ZLGY3744 PHBG3726 PHBE3722 FORS3744 HMBG3724	GENE3764+GENE3744 CHEM3723+CHEM3721+ CHEM3743+CHEM3741 ENTO3724+ENTO3744 ANBE3726	FORS3744

BIOLOGICAL SCIENCES Fields of study 3: BC432082, BC432041, BC432042, BC432061

LEARNING PROGRAMMES BIOLOGICAL SCIENCES Fields of study 3

Learning programmes in the BIOLOGICAL SCIENCES Fields of study 3 offer 4 options, Plant health Ecology, Botany and Plant Pathology, Botany and Plant Breeding, Environmental Rehabilitation with Botany as a major in combination with other modules. Each student selects all the compulsory modules (rows C1, C2, C3) for each study year and chooses modules as supportive electives (E) per semester to obtain at least 120 credits for each study year.

DISCIPLINE`	PLANT HEALTH ECOLOGY	BOTANY AND PLANT PATHOLOGY	BOTANY AND PLANT BREEDING	ENVIRONMENTAL REHABILITATION	PLANT HEALTH ECOLOGY	BOTANY AND PLANT PATHOLOGY	BOTANY AND PLANT BREEDING	ENVIRONMENTAL REHABILITATION
2017 CODE	**BC432082**	**BC432042**	**BC432041**	**BC432061**	**BC432082**	**BC432042**	**BC432041**	**BC432061**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1513+CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+CHEM1551 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1513+CHEM1551 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1513+CHEM1551 GLGY1614 MATM1534	BLGY1663 BLGY1643 CHEM1643+ CHEM1661 STSA1624 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 STSA1624 BLGY1683 SCCS1624	BLGY1623 BLGY1643 BLGY1663 BLGY1683 CHEM1643+ CHEM1661 STSA1624	BLGY1643 BLGY1663 STSA1624 SCCS1624 GLGY1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508				CSIL1521			
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	ENTO2616 **AT LEAST 40 CREDITS OF:** BTNY2616 CLIM2614 GRAS2614 SOIL2614	BTNY2616 SOIL2614 MCBP2616 PLTB2613	BTNY2616 GENE2616 PLTB2613	BTNY2616 SOIL2614 GLGY2614	ENTO2626 PPLG2624 **AT LEAST 24 CREDITS OF:** BTNY2626 CROP2624 CLIM2624	BTNY2626 BTNY2622 PLTB2623 PPLG2624	BTNY2626 PLTB2623 GENE2626	BTNY2626 SOIL2624 GLGY2642 GLGY2644
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY	ENTO3714 PPLG3714 PPLG3734 **ONE OF:** ENTO3754 BTNY3734	BTNY3702 BTNY3714 BTNY3754 PPLG3714 PPLG3734	BTNY3702 BTNY3714 BTNY3734 BTNY3754 PLTB3714	BTNY3702 BTNY3714 BTNY3734 SOIL3714 GLGY3774	ENTO3724 PPLG3724 PPLG3744 **ONE OF:** CLIM3724 BTNY3744	BTNY3724 BTNY3744 PPLG3724 PPLG3744	BTNY3724 BTNY3744 PLTB3724 PLTB3744	BTNY3724 BTNY3744 SOIL3724 GLGY3784

BIOLOGICAL SCIENCES Fields of study 4: BC431980, BC431929, BC431946, BC433929, BC433946

LEARNING PROGRAMMES IN THE BIOLOGICAL SCIENCES Fields of study 4

LEARNING PROGRAMMES BIOLOGICAL SCIENCES Fields of study 3 offer 5 options with a Food Science and Statistics in combination with Biochemistry and Microbiology as well as Biochemistry in combination with Physiology Microbiology and Biochemistry and Physiology. Students select one of the options and include all the compulsory modules in row (C1, C2, and C3) of each of the selected disciplines for all three study years. Students need to SELECT enough elective modules per semester from the compulsory row (C1, C2, and C3) of any other discipline or from

DISCIPLINE	BIOCHEMISTRY & PHYSIOLOGY	BIOCHEMISTRY & FOOD SCIENCE	BIOCHEMISTRY & STATISTICS	MICROBIOLOGY & FOOD SCIENCE	MICROBIOLOGY & STATISTICS	BIOCHEMISTRY & PHYSIOLOGY	BIOCHEMISTRY & FOOD SCIENCE	BIOCHEMISTRY & STATISTICS	MICROBIOLOGY & FOOD SCIENCE	MICROBIOLOGY & STATISTICS
2017 CODE	**BC431980**	**BC431929**	**BC431946**	**BC433929**	**BC433946**	**BC431980**	**BC431929**	**BC431946**	**BC433929**	**BC433946**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1614 **OR** MATM1534	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+ CHEM1661 **OR** CHEM1623+ CHEM1661	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSA1624 CHEM1643+CHEM1661 **OR** CHEM1623+CHEM1661
REQUIRED * if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1521	CSIL1521	CSIL1521	CSIL1521	CSIL1521
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	BOCB2616 PHBG2616	BOCB2616+ FSCI2613 FSCC2613	BOCB2616 STSA2616	MCBP2616 FSCI2613 FSCC2613 BOCB2616	MCBP2616 STSA2616 BOCB2616	BOCE2626 PHBG2626	BOCE2626 FSCC2622 FSCS2624	BOCE2626 STSA2626	MCBP2626 FSCC2622 FSCS2624 BOCE2626	MCBP2626 STSA2626 BOCE2626
ELECTIVES E2	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 MATM2614	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 MATM2614	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 MATM2614	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 MATM2614	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 MATM2614	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 MATM2624	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 MATM2624	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 MATM2624	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 MATM2624	CHEM2623+CHEM2621 CHEM2643+CHEM2641 MATM2624
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	BOCM3714 BOCE3714 PHBG3716 PHBN3712	BOCM3714 BOCE3714 FSCA3714 FSCE3714	BOCM3714 BOCE3714 STSA3732 STSA3716	MCBG3714 MCBP3714 FSCA3714 FSCE3714	MCBG3714 MCBP3714 STSA3732 STSA3716	BOCP3724 BOCS3724 PHBG3726 PHBE3722	BOCP3724 BOCS3724 FSCP3724 FSCB3724	BOCP3724 BOCS3724 STSA3742 STSA3726	MCBM3724 MCBC3724 FSCP3724 FSCB3724	MCBM3724 MCBC3724 STSA3742 STSA3726

12.4.1.8 BACHELOR OF SCIENCE MAJORING IN BUILDING SCIENCES

BUILDING SCIENCES Fields of study 1: BC432400, BC434300, BC432401, BC434301

A degree for the academic preparation of a student for the profession of Quantity Surveying and Construction Management. Learning programmes in the BUILDING SCIENCES Fields of study 1 offer 4 options. Each student selects all the compulsory modules (rows C1, C2, C3) for each study year and chooses modules as supportive electives (E) per semester to obtain at least 120 credits for each study year.

	1		2		3		4	
DISCIPLINE	**BSc MAJORING IN CONSTRUCTION MANAGEMENT (RES)**		**BSc MAJORING IN QUANTITY SURVEYING (RES)**		**BSc MAJORING IN CONSTRUCTION MANAGEMENT (OPEN)**		**BSc MAJORING IN QUANTITY SURVEYING (OPEN)**	
2017 CODE	**BC432400**		**BC434300**		**BC432401**		**BC434301**	
	400 CREDITS		**384 CREDITS**		**400 CREDITS**		**384 CREDITS**	
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY C1	BDQR1504 BBSR1514 PHYS1512 EBCS1514 EBUS1514	BBER1524 BPDR1522 BARR1522 MATM1542	BDQR1504 BBSR1514 PHYS1512 EBCS1514 EBUS1514	BPDR1522 BARR1522 MATM1542	BDQD1504 (BUILD) PHYS1502 (BUILD) BBSD1514 (BUILD) EBCS1514 (EOFF) EBUS1514 (BUILD) MATM1502 (BUILD)	BBED1524 (BUILD) BPDD1522 (BUILD) BARD1522 (BUILD)	BDQD1504 (BUILD) BBSD1514 (BUILD) PHYS1502 (BUILD) EBCS1514 (EOFF) BBCD1514 (BUILD) BSCD1514 (BUILD) MATM1502 (BUILD)	BCED1524 (BUILD) BPDD1522 (BUILD) BARD1522 (BUILD)
	EACC1614 **OR**	EMAC2624	EACC1614 **OR**	EMAC2624	EACC1614 **OR**	EMAC2624	EACC1614 **OR**	EMAC2624
ELECTIVES								
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521				
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY C2	BDQR2604 BBSR2614 BCSR2612 BBER2612 BPDR2614	BPDR2624 BBER2622 BCSR2622	BDQR2604 BBSR2614 BCSR2612 BBER2612 BPDR2614	BPDR2624 BBER2622 BCSR2622	BDQD2604 (BUILD) BBSD2614 (BUILD) BCSD2612 (BUILD) BCED2612 (BUILD) BPDD2614 (BUILD)	BPDD2624 (BUID) BBED2622 (BUILD) BCSD2622 (BUILD)	BDQD2604 (BUILD) BBSD2614 (BUILD) BCSD2612 (BUILD) BBED2612 (BUILD) BPDD2614 (BUILD)	BPDD2624 (BUILD) BBED2622 (BUILD) BCSD2622 (BUILD)
ELECTIVES	EECF1614 **OR** LMER2604 **OR**	EECF1624 LLBR2624	EECF1614 **OR** LMER2604 **OR**	EECF1624 LLBR2624	EECF1614 **OR** LMER2604 (EOFF) **OR**	EECF1624 LLBR2624	EECF1614 **OR** LMER2604 (EOFF) **OR**	EECF1624 LLBR2624
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY C3	BDQR3706 BBSR3712 BCCR3712 BBER3712 BQPR3704 BPOR3706	BCCR3722 BIRR3722 BBSR3722 BBER3722	BDQR3706 BBSR3712 BCCR3712 BBER3712 BQPR3704 BPOR3706	BCCR3722 BIRR3722 BBSR3722 BBER3722	BDQD3706 (BUILD) BBSD3712 (BUILD) BCCD3712 (BUILD) BBED3712 (BUILD) BQPD3704 (BUILD) BPOD3706 (BUILD)	BCCD3722 (BUILD) BIRD3722 (BUILD) BBSD3722 (BUILD) BBED3722 (BUILD)	BDQD3706 (BUILD) BBSD3712 (BUILD) BCCD3712 (BUILD) BBED3712 (BUILD) BQPD3704 (BUILD) BPOD3706 (BUILD)	BCCD3722 (BUILD) BIRD3722 (BUILD) BBSD3722 (BUILD) BBED3722 (BUILD)

12.4.1.9 BACHELOR OF SCIENCE MAJORING IN CHEMICAL AND PHYSICAL SCIENCES

PHYSICAL AND CHEMICAL SCIENCES Fields of study BC434017, BC434012, BC434026, BC432140, BC432119, BC432129, BC432129,BC432139

LEARNING PROGRAMMES PHYSICAL AND CHEMICAL SCIENCES FIELDS OF STUDY

Learning programmes in chemical and physical sciences offer EIGHT main options with either:

- Physics and Chemistry as the two majors
- Physics and Engineering Subjects, as the two majors
- Physics and Astrophysics, as the two majors
- Chemistry in combination Biological Subjects with one of the following: Biochemistry, Botany, Food Science or Microbiology as the other major.
- Physics and Agrometeorology, as the two majors

Each student choose at least one option and enrol for or all compulsory modules in compulsory rows (C1, C2, C3). If electives are available the students need to choose enough elective modules (E) per semester to obtain at least 120 credits in each study year.

Physics can also be in combination with Mathematics, Geology and Computer Science. Chemistry can also be in combination with Forensic Science, Mathematics, Geology and Computer Science.

DISCIPLINE	**PHYSICS & CHEMISTRY**	**PHYSICS & ASTROPHYSICS**	**PHYSICS & AGROMETEOROLOGY**	**PHYSICS & ENGINEERING SUBJECTS**	**CHEMISTRY & BIOLOGICAL SUBJECTS**	**PHYSICS & CHEMISTRY**	**PHYSICS & ASTROPHYSICS**	**PHYSICS & AGROMETEOROLOGY**	**PHYSICS & ENGINEERING SUBJECTS**	**CHEMISTRY & BIOLOGICAL SUBJECTS**
2017 CODE	**BC432140**	**BC434017**	**BC434012**	**BC434026**	**BC432119, BC432120, BC432129, BC432139**	**BC432140**	**BC434017**	**BC434012**	**BC434026**	**BC432119, BC432120, BC432129, BC432139**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	PHYS1514 CHEM1513+ CHEM1551 MATM1614 **OR** MATM1534	PHYS1514 PHYA1554 MATM1614	PHYS1514 MATM1614 **OR** MATM1534	PHYS1514 MATA1614 MATM1614 CHEM1513+ CHEM1551 CSIE1606 QALC1513	CHEM1513+ CHEM1551 BLGY1513 PHYS1534 OR PHYS1514 MATM1614 **OR** MATM1534	PHYS1624 CHEM1623+ CHEM1661 MATM1624 **OR** MATM1544	PHYS1624 PHYA1664 MATM1624 **OR** MATM1544	PHYS1624 MATM1624 **OR** MATM1544 SCCS1624	PHYS1624 MATA1624 MATM1624 QEDR1524 QEFO1520	CHEM1623+ CHEM1661 BLGY1683 BLGY1643 STSA1624 MATM1544
ELECTIVES E1	CSIS1614 **OR** CSIS1534 STSM1614 PHYA1554	CSIS1614 **OR** CSIS1534 STSM1614	CSIS1614 STSM1614 PHYA1554 CHEM1513+ CHEM1551 BLGY1513			CSIS1624 **OR** CSIS1644 STSM1624 STSA1624 SCCS1624 PHYA1664	CSIS1624 **OR** CSIS1644 STSM1624 STSA1624	CSIS1624 **OR** CSIS1644 STSM1624 STSA1624 PHYA1664 CHEM1623+ CHEM1661		PHYS1644 OR PHYS1624
REQUIRED *if NBT < 65%	CSIL1511 & UFS101 *EALN1508 OR AGAN1508					CSIL1521	CSIL1521	CSIL1521		CSIL1521
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	PHYS2614 PHYS2632 CHEM2613+ CHEM2611 CHEM2633+ CHEM2631	PHYS2614 PHYS2632 PHYA2613	PHYS2614 PHYS2632 CLIM2614	PHYS2614 PHYS2632 MATA2614 MATM2614 QSTR2614 **ONE OF:** QMSC2613 CSIE2613 QMAT2613	CHEM2613+CHEM2611 CHEM2633+CHEM2631 **AT LEAST ONE OF:** BOCB2616 MCBP2616 BTNY2616 FSCI2613+FSCC2613	PHYS2624 PHYS2642 CHEM2623+ CHEM2621 CHEM2643+ CHEM2641	PHYS2624 PHYS2642 PHYA2623 MATA2644	PHYS2624 PHYS2642 CLIM2624	PHYS2624 PHYS2642 MATA2644 MATM2664 QELT2723 QWOR2520 QVAC2520 QMAD2623 **ONE OF:** CSIS1683 GLGY2643 + GLGY2641	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 **AT LEAST ONE OF:** BOCE2626 MCBP2626 BTNY2626 FSCC2622+ FSCS2624

DISCIPLINE	PHYSICS & CHEMISTRY	PHYSICS & ASTROPHYSICS	PHYSICS & AGROMETEOROLOGY	PHYSICS & ENGINEERING SUBJECTS	CHEMISTRY & BIOLOGICAL SUBJECTS	PHYSICS & CHEMISTRY	PHYSICS & ASTROPHYSICS	PHYSICS & AGROMETEOROLOGY	PHYSICS & ENGINEERING SUBJECTS	CHEMISTRY & BIOLOGICAL SUBJECTS
2017 CODE	**BC432140**	**BC434017**	**BC434012**	**BC434026**	**BC432119, BC432120, BC432129, BC432139**	**BC432140**	**BC434017**	**BC434012**	**BC434026**	**BC432119, BC432120, BC432129, BC432139**
ELECTIVES E2	MATM2614 MATA2634 MATM2654 STSM2616	MATM2614 MATA2634 MATM2654 STSM2616	MATA2634 MATM2654 STSM2616 MATM2614			MATA2644 MATM2624 MATM2664 STSM2626	MATM2624 MATA2644/ MATM2664 STSM2626	MATA2644 MATM2624 MATM2664 STSM2626		
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	PHYS3714 PHYS3732 PHYS3752 CHEM3713+ CHEM3711 CHEM3733+ CHEM3731	PHYS3714 PHYS3732 PHYS3752 PHYA3772 PHYA3708	PHYS3714 PHYS3732 PHYS3752 CLIM3714	PHYS3714 PHYS3732 PHYS3752 MATM2654 **ONE OF:** QSUR3614+ QSTR3714 OR CSIE3714 + QSIG3714	CHEM3713+CHEM3711 CHEM3733+ CHEM3731 **ONE OF:** BOCM3714+BOCE3714 MCBG3714 + MCBP3714 BTNY3714+BTNY3734 **OR** BTNY3754 FSCA3714+FSCE3714	PHYS3724 PHYS3742 PHYS3762 CHEM3723+ CHEM3721 CHEM3743+ CHEM3741	PHYS3724 PHYS3742 PHYS3762 PHYA3782 MATA3784	PHYS3724 PHYS3742 PHYS3762 CLIM3724	**CHOOSE ONE OF: STREAM A OR B** **STREAM A** QVAC3520 PHYS3724+ PHYS3742+ PHYS3762 TWO OF MATA3784 MATM3744 CSIS3744 **STREAM B** QVAC3520 QTHE3724+ QENV3724 **ONE OF:** QSTR3724 + QFLO3724 **OR** CSIE3724 + QPOW3724	CHEM3723+ CHEM3721 CHEM3743+ CHEM3741 **ONE OF:** BOCP3724+ BOCS3724 MCBM3724+ MCBC3724 FSCP3724+ FSCB3724 BTNY3724+ BTNY3744 MCBC3724+ FSCB3724
ELECTIVES E3	CLNS3702	CLNS3702	CLNS3702 MATM3714 MATM3734 MATA3774		CLNS3702 BTNY3702 BTTNY3722			MATM3724 MATM3744 MATA3764 MATA3784		

12.4.1.10 BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY
COMPUTER SCIENCE AND INFORMATICS FIELDS OF STUDY: BC432221, BC432237, BC432238, BC432240, BC432255

LEARNING PROGRAMMES IN COMPUTER SCIENCE AND INFORMATICS BSc(IT)

Learning programmes in Computer Science and Informatics offer 5 main fields with either:

- Computer Science and Chemistry
- Computer Science and Mathematics
- Computer Science and Mathematical Statistics
- Computer Science and Physics
- Computer Science in Business and Management

Each student selects ONE field and enrols for all the compulsory modules, in the compulsory rows (C1, C2, C3), for all three study years. Students also need to select enough elective modules per semester, in their field of study, from the electives row (E1, E2), to obtain a combined amount of credits from the compulsory and elective modules of at least a 120 credits in each study year.

DISCIPLINE	CHEMISTRY	MATHEMATICS	MATHEMATICAL STATISTICS	PHYSICS	BUSINESS & MANAGEMENT	CHEMISTRY	MATHEMATICS	MATHEMATICAL STATISTICS	PHYSICS	BUSINESS & MANAGEMENT
2017 CODE	**BC432221**	**BC432238**	**BC432237**	**BC432240**	**BC432255**	**BC432221**	**BC432238**	**BC432237**	**BC432240**	**BC432255**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	CSIS1614 CSIS1553 CHEM1513+ CHEM1551 **ONE OF:** MATM1614 MATM1534	CSIS1614 CSIS1553 MATM1614 **ONE OF:** CHEM1513+ CHEM1551 PHYS1534 PHYS1514	CSIS1614 CSIS1553 STSM1614 MATM1614	CSIS1614 CSIS1553 PHYS1514 **ONE OF:** MATM1614 MATM1534	CSIS1614 CSIS1553 BCIS1513 **ONE OF:** EHRM1514 EBUS1514 EBCS1514 MATM1534	CSIS1624 CSIS1664 CHEM1623+ CHEM1661 **ONE OF:** MATM1544 MATM1624	CSIS1624 CSIS1664 MATM1624 **ONE OF:** CHEM1623+ CHEM1661 CHEM1643+ CHEM1661 PHYS1644 PHYS1624	CSIS1624 CSIS1664 STSM1624 **ONE OF:** MATM1624	CSIS1624 CSIS1664 PHYS1624 **ONE OF:** MATM1544 MATM1624	CSIS1624 CSIS1664 **TWO OF:** BCIS1623 EBCS1524 EIOP1524 EACC1624 MATM1544
ELECTIVES E1	BCIS1513	BCIS1513	BCIS1513	BCIS1513		CSIS1683	CSIS1683	CSIS1683	CSIS1683	CSIS1683
REQUIRED *if NBT < 65%	CSIL1511 & UFS101 *EALN1508 OR AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	CSIS2614 CSIS2634 CHEM2613+ CHEM2611 CHEM2633+ CHEM2631	CSIS2614 CSIS2634 MATM2654 MATM2614	CSIS2614 CSIS2634 STSM2616	CSIS2614 CSIS2634 PHYS2614 PHYS2632	CSIS2614 CSIS2634 **TWO OF:** STSA2616 BCIS2614 EECF1614 EBUS1614	CSIS2624 CSIS2664 CHEM2623+ CHEM2621 CHEM2643+ CHEM2641	CSIS2624 CSIS2664 MATM2664 **ONE OF:** MATM2624 MATA2644	CSIS2624 CSIS2664 STSM2626	CSIS2624 CSIS2664 PHYS2624 PHYS2642	CSIS2624 CSIS2664 **TWO OF:** STSA2626 BCIS2624 EBUS1624 EBMA2624 EECF1624
ELECTIVES E2	MATM2654 MATA2634	MATA2634	MATM2654 MATM2614 MATA2634	MATM2654 MATM2614 MATA2634		MATA2644 CSIS2642	CSIS2642	MATA2644 MATM2664 CSIS2642	MATA2644 CSIS2642	CSIS2642
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	CSIS3714 CSIS3734 CHEM3713+ CHEM3711 CHEM3733+ CHEM3731	CSIS3714 CSIS3734 MATA3774 ONE OF: MATM3714 MATM3734	CSIS3714 CSIS3734 STSM3714 STSM3734	CSIS3714 CSIS3734 PHYS3714 PHYS3732 PHYS3752	CSIS3714 CSIS3734 **TWO OF:** EBUS2714 STSA3716 ETRM3714 STSA3732	CSIS3724 CSIS3744 CHEM3723+ CHEM3721 CHEM3743+ CHEM3741	CSIS3724 CSIS3744 MATM3724 **ONE OF:** MATM3744 MATA3784	CSIS3724 CSIS3744 STSM3724 STSM3744	CSIS3724 CSIS3744 PHYS3724 PHYS3742 PHYS3762	CSIS3724 CSIS3744 **TWO OF:** EBMA3725 STSA3726 ESBM2724 STSA3742

12.4.1.11 BACHELOR OF SCIENCE MAJORING IN GEOSCIENCES

GEOGRAPHY FIELD OF STUDY 1: BC433360, BC433346, BC433354, BC433312

LEARNING PROGRAMMES IN GEOSCIENCES FIELD OF STUDY I

The learning programmes in Geography and the Environmental sciences are studies of the properties and processes in the earth and on the surface and encompass a holistic study of the human environment and accompanying interactions and relationships. The programme is aimed at students who are interested in various aspects of the environment and can lead to specialisation as environmentalists. Careers in these sciences are divergent because all institutions that are involved with resource utilisation are legally obliged to examine the impact of their activities on the environment. The connection of geographical information and computer technology simplifies the storage, processing, modelling and presentation of information and expedites decision making.

Each student selects all the compulsory modules (rows C1, C2, C3) for all three study years and chooses modules as supportive electives (E) per semester to obtain at least 120 credits for each year of study.

DISCIPLINE	**GEO-INFORMATICS**	**GEOGRAPHY AND STATISTICS**	**GEOGRAPHY AND ENVIRONMENTAL SCIENCES**	**GEOGRAPHY AND AGROMETEOROLOGY**	**GEO-INFORMATICS**	**GEOGRAPHY AND STATISTICS**	**GEOGRAPHY AND ENVIRONMENTAL SCIENCES**	**GEOGRAPHY AND AGROMETEOROLOGY**
2017 CODE	**BC433369**	**BC433346**	**BC433362**	**BC433312**	**BC433369**	**BC433346**	**BC433362**	**BC433312**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	GEOP1514 CSIS1614 MATM1534 PHYS1514 EBUS1514	GEOP1514 EBUS1514 MATM1534 **ONE OF:** CSIS1614 CSIS1553	GEOP1514 EBUS1514 BLGY1513 **ONE OF:** CHEM1513+CHEM1551 MATM1534	GEOP1514 EBUS1514 MATM1534 **ONE OF:** BLGY1513 CHEM1513+CHEM1551 PHYS1514	GEOH1624 CSIS1624 CSIS1664 MATM1544 STSA1624	GEOH1624 STSA1624 SCCS1624 **ONE OF:** CSIS1624 CSIS1683	GEOH1624 STSA1624 SCCS1624 BLGY1643 BLGY1663	GEOH1624 STSA1624 SCCS1624 **ONE OF:** BLGY1643+BLGY1663 CHEM1643+CHEM1661 MATM1544 PHYS1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1511 UFS101 *EALN1508 OR AGAN1508	CSIL1521	CSIL1521	CSIL1521	CSIL1521
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	GEOH2614 GEOP2614 CSIS2634 CSIS2614 KWEG2612	GEOH2614 GEOP2614 STSA2616 EBUS2714	GEOH2614 GEOP2614 SOIL2614	GEOH2614 GEOP2614 SOIL2614 CLIM2614	GEOP2624 GISC2624 CSIS2664	GEOP2624 GISC2624 STSA2626	GEOP2624 GISC2624 SOIL2624 GLGY2644	GEOP2624 GISC2624 SOIL2624 CLIM2624
ELECTIVES E1	EBUS2714 CSIS1553		BTNY2616 OR ZLGY2616				BTNY2626+BTNY2622 OR ZLGY2626	
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	GEOP3714 GISC3704 CSIS3734 CSIS3714 MATM2654	GEOP3714 STSA3716 STSA3732 GEOH3714	GEOP3714 SOIL3714 EBUS2714	GEOP3714 GEOH3714 SOIL3714 CLIM3714	GEOP3724 GISC3724 CSIS3744 CSIS3724	GEOP3724 GISC3724 STSA3726 STSA3742	GEOP3724 GISC3724 SOIL3724	GEOP3724 GISC3724 SOIL3724 CLIM3724
ELECTIVES E1	GEOH3714		BTNY3702+ BTNY3714+ BTNY3734+ **OR** ZLGY3734 + ZLGY3714					

12.4.1.12 BACHELOR OF SCIENCE MAJORING IN GEOSCIENCES

GEOLOGY FIELD OF STUDY 2: BC433535, BC433528, BC433532, BC433521, BC433533, BC433540

LEARNING PROGRAMMES IN GEOSCIENCES FIELD OF STUDY 2

Learning programmes in GEOLOGY Field of study 1 offer SIX main options with either: Geology specialisation, Geochemistry, Environmental Geology, Geology and Chemistry as the two majors, Geology and Geography as the other majors, Geology and Physics as the two majors. Each student enrols for or all compulsory modules in compulsory rows (C1, C2, C3). If electives are available the students need to choose enough elective modules (E) per semester to obtain at least 120 credits in each study year.

DISCIPLINE	GEOLOGY	GEOCHEM-ISTRY	ENVIRONMENTAL GEOLOGY	CHEMISTRY	GEOGRAPHY	PHYSICS	GEOLOGY	GEOCHEMISTRY	ENVIRONMENTAL GEOLOGY	CHEMISTRY	GEOGRAPHY	PHYSICS
2017 CODE	**BC433535**	**BC433532**	**BC433528**	**BC433521**	**BC433533**	**BC433540**	**BC433535**	**BC433532**	**BC433528**	**BC433521**	**BC433533**	**BC433540**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	GLGY1614 CHEM1513+ CHEM1551	GLGY1614 CHEM1513+ CHEM1551 PHYS1514	GLGY1614 CHEM1513+ CHEM1551 GEOP1514	GLGY1614 CHEM1513+ CHEM1551	GLGY1614 CHEM1513+ CHEM1551 GEOP1514	GLGY1614 CHEM1513+ CHEM1551 PHYS1514	GLGY1624	GLGY1624 CHEM1623+ CHEM1661 OR CHEM1643+ CHEM1661 MATM1544	GLGY1624 SCCS1624 EBUS1624	GLGY1624 CHEM1623+ CHEM1661	GLGY1624 GEOH1624	GLGY1624 PHYS1624
	MATM1534	MATM1534	MATM1534	MATM1534	MATM1534	MATM1534	STSA1624	STSA1624	STSA1624	STSA1624 MATM1544	STSA1624	STSA1624 MATM1544
ELECTIVES E	**ONE OF:** PHYS1514 PHYS1534 GEOP1514			**ONE OF:** PHYS1514 PHYS1534 GEOP1514			**TWO OF** GEOH1624 CHEM1643+ CHEM1661 CHEM1623+ CHEM1661 PHYS1644 PHYS1624 MATM1544				**ONE OF:** CHEM1623+ CHEM1661 CHEM1643+ CHEM1661 SCCS1624	
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	GLGY2612 GLGY2614 GLGY2632 GLGY2652 **ONE OF:** CHEM2613+ CHEM2611 GEOP2614 PHYS2614	GLGY2612 GLGY2614 GLGY2632 GLGY2652 CHEM2633+ CHEM2631 CHEM2613+ CHEM2611	GLGY2612 GLGY2614 GLGY2632 GLGY2652 SOIL2614	GLGY2612 GLGY2614 GLGY2632 GLGY2652 CHEM2633+ CHEM2631 CHEM2613+ CHEM2611	GLGY2612 GLGY2614 GLGY2632 GLGY2652 GEOH2614 GEOP2614	GLGY2612 GLGY2614 GLGY2632 GLGY2652 PHYS2614 PHYS2632	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 GISC2624	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 CHEM2643+ CHEM2641	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 SOIL2624 GISC2624	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 CHEM2643+ CHEM2641 CHEM2623+ CHEM2621	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 GEOP2624 GISC2624	GLGY2662 GLGY2622 GLGY2624 GLGY2642 GLGY2644 PHYS2624 PHYS2642
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	GLGY3714 GLGY3734 GLGY3754 GLGY3774	CHEM3713+ CHEM3711 GLGY3714 GLGY3754 GLGY3774	SOIL3714 GLGY3714 GLGY3754 GLGY3774	CHEM3713+ CHEM3711 CHEM3733+ CHEM3731 GLGY3714 **ONE OF:** GLGY3754 GLGY3774	GEOH3714 GEOP3714 GLGY3714 **ONE OF:** GLGY3754 GLGY3774	PHYS3714 PHYS3732 PHYS3752 GLGY3714 **ONE OF:** GLGY3754 GLGY3774	GLGY3724 GLGY3744 GLGY3764 GLGY3784	GLGY3724 GLGY3764 GLGY3784 **ONE OF:** GLGY3744 CHEM3723+ CHEM3721	SOIL3724 GLGY3724 GLGY3764 GLGY3784	CHEM3723+ CHEM3721 CHEM3743+ CHEM3741 GLGY3724 **ONE OF:** GLGY3744 GLGY3764	GEOP3724 GISC3724 GLGY3724 **ONE OF:** GLGY3744 GLGY3764 GLGY3784	PHYS3724 PHYS3742 PHYS3762 GLGY3724 **ONE OF:** GLGY3764 GLGY3784

12.4.1.13 BACHELOR OF SCIENCE MAJORING IN MATHEMATICAL SCIENCES

MATHEMATICAL SCIENCES FIELDS OF STUDY 1: BC433816, BC433821, BC433837, BC433840, BC433864

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF STUDY 1

Learning programmes in Mathematics offer FIVE main options with a combination of disciplines:

- **Mathematics** and Applied Mathematics
- **Mathematics** and Physics
- **Mathematics** and Chemistry
- **Mathematics** and Finances
- **Mathematics** and Mathematical Statistics

Students SELECT Mathematics and one other DISCIPLINE and include all the compulsory modules in row (C1, C2, C3) of each of the selected disciplines for all three study years. Students need to SELECT enough elective modules per semester from the compulsory row (C1, C2, and C3) of any other discipline or from the elective row (E) for their selected disciplines to obtain at least 120 credits for each study year.

DISCIPLINE	MATHEMATICS & APPLIED MATHEMATICS	MATHEMATICS & CHEMISTRY	MATHEMATICS & MATHEMATICAL STATISTICS	MATHEMATICS & PHYSICS	MATHEMATICS & FINANCE	MATHEMATICS & APPLIED MATHEMATICS	MATHEMATICS & CHEMISTRY	MATHEMATICS & MATHEMATICAL STATISTICS	MATHEMATICS & PHYSICS	MATHEMATICS & FINANCE
2017 CODE	**BC433816**	**BC433821**	**BC433837**	**BC433840**	**BC433864**	**BC433816**	**BC433821**	**BC433837**	**BC433840**	**BC433864**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	MATM1614 MATA1614	MATM1614 CHEM1513+ CHEM1551	MATM1614 STSM1614	MATM1614 PHYS1514 PHYA1554	MATM1614 EECF1614 STSM1614 EACC1614	MATM1624 MATA1624 CSIS1683	MATM1624 CHEM1623+ CHEM1661	STSM1624 CSIS1683 MATM1624	MATM1624 PHYS1624 PHYA1664	MATM1624 EECF1624 STSM1624 EACC1624
ELECTIVES E1	CHEM1513+ CHEM1551 PHYS1514 PHYA1554 STSM1614	PHYS1514 PHYA1554 STSM1614	CHEM1513+ CHEM1551 PHYS1514 PHYA1554	CHEM1513+ CHEM1551 STSM1614		CHEM1623+ CHEM1661 PHYS1624 PHYA1664 STSM1624	PHYS1624 PHYA1664 CSIS1683 STSM1624	CHEM1623+ CHEM1661 PHYS1624 PHYA1664	CHEM1623+ CHEM1661 CSIS1683 STSM1624	CSIS1683
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 **OR** AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	MATM2614 MATA2614 MATA2634 MATM2654	MATM2614 CHEM2613+ CHEM2611 CHEM2633+ CHEM2631	MATM2614 STSM2616	MATM2614 PHYS2614 PHYS2632	MATM2614 EACC2608 EFES2714 ACSF2716	MATM2624 MATM2664 MATA2644	MATM2624 MATM2664 CHEM2623+ CHEM2621 CHEM2643+ CHEM2641	MATM2624 MATM2664 STSM2626	MATM2624 MATM2664 PHYS2624 PHYS2642	MATM2624 MATM2664 EACC2608 EFES2724 ACSF2726 **OR** ACSF2746
ELECTIVES E2	STSM2616 PHYS2614	PHYS2614 PHYS2632 STSM2616 MATA2634 MATM2654	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 PHYS2614 PHYS2632 MATA2634 MATM2654	CHEM2613+ CHEM2611 CHEM2633+ CHEM2631 STSM2616 MATA2634 MATM2654		STSM2626	STSM2626 PHYS2624 PHYS2642 MATA2644	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 PHYS2624 PHYS2642 MATA2644	CHEM2623+ CHEM2621 CHEM2643+ CHEM2641 STSM2626 MATA2644	STSM2626
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	MATM3714 MATM3734 MATA3774	MATM3714 MATM3734 CHEM3713+ CHEM3711 CHEM3733+ CHEM3731	MATM3714 MATM3734 STSM3714 STSM3734	MATM3714 MATM3734 PHYS3714 PHYS3732 PHYS3752	MATM3714 MATM3734 EFET3714	MATM3724 MATM3744 MATA3764 MATA3784	MATM3724 MATM3744 CHEM3723+ CHEM3721 CHEM3743 + CHEM3741	MATM3724 MATM3744 STSM3724 STSM3744	MATM3724 MATM3744 PHYS3724 PHYS3742 PHYS3762	MATM3724 MATM3744 EFET3724

MATHEMATICAL SCIENCES FIELDS OF STUDY 2: BC433712, BC433758, BC433701, BC433773

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF STUDY 2

Learning programmes in Mathematical Statistics offer four main options with a combination of disciplines:

- **Mathematical Statistics** and Agrometeorology (**Climate Sciences)**
- **Mathematical Statistics** and Investment Sciences (**Investment Science**)
- **Mathematical Statistics** and Economics **(Econometrics)**
- **Mathematical Statistics** and Psychology **(Psychometrics)**

Students SELECT Mathematical Statistics and one other DISCIPLINE and include all the compulsory modules in row (C1, C2, C3) of each of the selected disciplines for all three study years. Students need to SELECT enough elective modules per semester from the compulsory row (C1, C2, and C3) of any other discipline or from the elective row (E) for their selected disciplines obtain of at least 120 credits for each study year.

DISCIPLINE	**CLIMATE SCIENCE**	**ECONOMETRICS**	**INVESTMENT SCIENCE**	**PSYCHOMETRICS**	**CLIMATE SCIENCE**	**ECONOMETRICS**	**INVESTMENT SCIENCE**	**PSYCHOMETRICS**
2017 CODE	**BC433712**	**BC433758**	**BC433701**	**BC433786**	**BC433712**	**BC433758**	**BC433701**	**BC433786**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	STSM1614 GEOP1514 PHYS1534 MATM1614	STSM1614 EECF1614 EACC1614 MATM1614 **ONE OF:** AGEC1514 ACSG1614 ACSF1513 CSIS1534	STSM1614 EECF1614 ACSF1513 MATM1614 **ONE OF:** EACC1614 EFIN1614	STSM1614 PSIN1514 EHRM1514 MATM1614	STSM1624 CSIS1683 SCCS1624 MATM1624	STSM1624 EECF1624 MATM1624 **ONE OF:** EACC1624 AGEC1624 CSIS1644 ACSF1523	STSM1624 EECF1624 EFIN1624 ACSF1523 MATM1624	STSM1624 PSDE1624 EIOP1524 MATM1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 EALN1508 or AGAN1508	CSIL1511 UFS101 EALE1508 or AGAM1508	CSIL1511 UFS101 EALE1508 or AGAM1508	CSIL1511 UFS101 EALN1508 or AGAN1508	CSIL1521	CSIL1521	CSIL1521	CSIL1521
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	STSM2616 CLIM2614 MATA2634 **ONE OF:** MATM2614 MATM2654	STSM2616 MATM2654 EMIC2714 **ONE OF:** MATM2614 MATA2634 EFES2714	STSM2616 ACSF2716 EMIC2714	PSSO2614 MATA2634 **ONE OF:** MATM2614 MATM2654	STSM2626 CLIM2624 **ONE OF:** MATM2624 MATA2644 MATM2664	STSM2626 EMAC2724 **ONE OF:** EFES2724 MATM2624 MATA2644 MATM2664	STSM2626 EMAC2724 ACSF2746 MATA2644	STSM2626 PSIH2724 **ONE OF:** MATA2644 MATM2664
ELECTIVES			EFIN2708					
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	STSM3714 STSM3734 CLIM3714 **ONE OF:** MATM3714 MATM3734 MATA3774	STSM3714 STSM3734 EFET3714 EINT3715	STSM3714 STSM3734 ACSF3706 **ONE OF:** EFET3714 EINT3715	PSPA3714 STSM3714 STSM3734 PSRM3714	STSM3724 STSM3744 CLIM3724 **ONE OF:** MATM3724 MATM3744 MATA3764 MATA3784	STSM3724 STSM3744 EECM3724 **ONE OF:** EFET3724 EECT3725 EMNF2724	STSM3724 STSM3744 **ONE OF:** EECT3725 EFET3724 EECM3724 EMNF2724	PSPE3724 STSM3724 STSM3744 PSTH3724

MATHEMATICAL SCIENCES FIELDS OF STUDY 3: BC434650, BC434658, BC434686

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF STUDY 3

Learning programmes in Statistics offers 2 main options with a combination of disciplines:

- **Statistics** and Accounting
- **Statistics** and Economics
- **Statistics** and Psychology

Students Students SELECT Statistics and one other DISCIPLINE and and include all the compulsory modules in row (C1, C2, C3) of each of the selected disciplines for all three study years.
Students need to SELECT enough elective modules per semester from the compulsory row (C1, C2 and C3) to obtain at least 120 credits for each study year.

DISCIPLINE	**ACCOUNTING**	**ECONOMICS**	**PSYCHOLOGY**	**ACCOUNTING**	**ECONOMICS**	**PSYCHOLOGY**
NEW CODE	**BC434650**	**BC434658**	**BC434686**	**BC434650**	**BC434658**	**BC434686**
YEAR	**FIRST**			**FIRST**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C1	EBCS1514 MATM1614 OR MATM1534 EACC1614 **ONE OF:** ACSG1614 ASCF1513 EECF1614 AGEC1514	EBCS1514 MATM1614 OR MATM1534 EECF1614 **ONE OF:** EACC1614 AGEC1514 ACSG1614 ASCF1513	EBCS1514 MATM1614 OR MATM1534 PSIN1514 EHRM1514	EBCS1524 MATM1624 OR MATM1544 EACC1624 **ONE OF:** ACSF1523 EECF1624 AGEC1624	EBCS1524 MATM1624 OR MATM1544 EECF1624 **ONE OF:** EACC1624 AGEC1624 ACSF1523	EBCS1524 MATM1624 OR MATM1544 PSDE1624 EIOP1524
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALE1508 or AGAM1508	CSIL1511 UFS101 *EALE1508 or AGAM1508	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521	CSIL1521	CSIL1521
YEAR	**SECOND**			**SECOND**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C2	STSA2616 MATA2634 EACC2608 **ONE OF:** EFES2714 EMIC2714 AGEC2614	STSA2616 MATA2634 EMIC2714 **ONE OF:** EFES2714 AGEC2614	STSA2616 MATA2634 PSSO2614 ECAP2614	STSA2626 **ONE OF:** EMAC2724 EFES2724 AGEC2624	STSA2626 EMAC2724 **ONE OF:** EFES2724 AGEC2624	STSA2626 ELRM2624 PSIH2724
YEAR	**THIRD**			**THIRD**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C3	STSA3716 STSA3732 EACC3708 **ONE OF:** EFET3714 EINT3715 AGEC3714	STSA3716 STSA3732 **TWO OF:** EINT3715 AGEC3714 EFET3714	STSA3716 STSA3732 **TWO OF:** PSPA3714 PSRM3714 ETRM3714	STSA3726 STSA3742 **ONE OF:** EFET3724 EECT3725 AGEC3724 EECM3724 EMNF2724	STSA3726 STSA3742 **TWO OF:** EFET3724 EECT3725 AGEC3724 EECM3724 EMNF2724	STSA3726 STSA3742 **TWO OF:** PSPE3724 PSTH3724 EPFM3724

12.4.2 BACHELOR OF SCIENCE IN AGRICULTURE

12.4.2.1 AGRICULTURAL SCIENCES FIELD OF STUDY 1: AGROMETEOROLOGY BC541213, BC541244, BC541211, BC541251, BC541236, BC541242

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES AND THE AGROMETEOROLOGY FIELD OF STUDY 1

Learning programmes in the Agrometeorology as main field of study offer 6 options with a combination of Agrometeorology as a major for specialisation in the fourth year and a minor from either one of Agronomy, Soil Science, Agricultural Economics, Agricultural Engineering, Grassland Science or Plant Pathology. Each student registers for all the compulsory modules (row C1, C2, C3, C4) during the four years of study and combines them with all the compulsory modules for the minor. If a student wants to register for the Agricultural Economics minor, two extra modules for the first year are required.

SPECIALISATION	Agrometeorology Agronomy	Agrometeorology Soil Science	Agrometeorology Agricultural Economics	Agrometeorology Agricultural Engineering	Agrometeorology Grassland Science	Agrometeorology Plant Pathology	Agrometeorology Agronomy	Agrometeorology Soil Science	Agrometeorology Agricultural Economics	Agrometeorology Agricultural Engineering	Agrometeorology Grassland Science	Agrometeorology Plant Pathology
2017 CODE	**BC541213**	**BC541244**	**BC541211**	**BC541251**	**BC541236**	**BC541242**	**BC541213**	**BC541244**	**BC541211**	**BC541251**	**BC541236**	**BC541242**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	AGEC1514 BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	AGEC1624 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	CLIM2614 CROP2614	CLIM2614 SOIL2614	CLIM2614 AGEC2614	CLIM2614 CROP2614	CLIM2614 GRAS2614	CLIM2614 CROP2614	CLIM2624 CROP2624	CLIM2624 SOIL2624	CLIM2624 AGEC2624	CLIM2624 AGEG2624	CLIM2624 SOIL2624	CLIM2624 PPLG2624
	SOIL2614	CROP2614	CROP2614	SOIL2614	SOIL2614	SOIL2614 PLTB2613	SOIL2624	CROP2624	CROP2624	SOIL2624	CROP2624	PLTB2623
ELECTIVE	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** SOIL2614 BOCH2614 ENTO2614 GRAS2614	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** CROP2614 BOCH2614 ENTO2614	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** SOIL2624 AGEG2624	**ONE OF:** CROP2624 PPLG2624	**ONE OF:** AGEG2624 PLTB2623 WDMT2624	**ONE OF:** CROP2624 SOIL2624 AGEG2624
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	CLIM3714 CROP3714 SOIL3714	CLIM3714 SOIL3714 CROP3714	CLIM3714 AGEC3714 CROP3714	CLIM3714 AGEG3714 SOIL3714	CLIM3714 GRAS3714 SOIL3714	CLIM3714 PPLG3714 PPLG3734	CLIM3724 CROP3724 SOIL3724	CLIM3724 SOIL3724 CROP3724	AGEC3724 CLIM3724 CROP3724	CLIM3724 AGEG3724 SOIL3724	CLIM3724 GRAS3724 SOIL3724	CLIM3724 PPLG3724 PPLG3744
ELECTIVE	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** SOIL3714 AGEG3714 GRAS3714	**ONE OF:** CROP3714 GRAS3714	**ONE OF:** CROP3714 AGEG3714 WDMT3714	**ONE OF:** CROP3714 SOIL3714 PLTB3714	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** SOIL3724 AGEG3724 GRAS3724	**ONE OF:** CROP3724 PPLG3724 GRAS3724	**ONE OF:** CROP3724 ANIN3744 AGEG3724	**ONE OF:** CROP3724 SOIL3724 PLTB3724
YEAR	**FOURTH**						**FOURTH**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C4	CLIM4814 CLIM4834 SCCS4814	CLIM4814 CLIM4834 SCCS4814	CLIM4814 CLIM4834 SCCS4814 AGEC4834	CLIM4814 CLIM4834 SCCS4814 AGEG4814	CLIM4814 CLIM4834 SCCS4814	CLIM4814 CLIM4834 SCCS4814 PPLG4834	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824 AGEG4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824
ELECTIVE	**ONE OF:** CROP4814 CROP4834	**ONE OF:** SOIL4814 SOIL4834			**ONE OF:** GRAS4814 GRAS4834		**ONE OF:** CROP4824 CROP4844	**ONE OF:** SOIL4824 SOIL4844	**ONE OF:** AGEC4824 AGEC4844		**ONE OF:** GRAS4824 GRAS4844	**ONE OF:** PPLG4824 PPLG4844

12.4.2.2 AGRICULTURAL SCIENCES FIELD OF STUDY 2: AGRONOMY BC541312, BC541344, BC541311, BC541315, BC541327, BC541329, BC541341, BC541342

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES IN AGRONOMY FIELD OF STUDY 2

Learning programmes in the **Agronomy** as main **field of study** offer 8 options with a combination of Agronomy s a major for specialisation in the fourth year and a minor from either one of Agrometeorology, Soil Science, Agricultural Economics, Animal Science, Entomology, Food Science, Plant Breeding or Plant Pathology. Each student registers for all the compulsory modules (row C1, C2, C3, C4) during the four years of study and combines them with all the compulsory modules for the minor. If a student wants to register for the Agricultural Economics minor, two extra modules for the first year are required.

LEARNING PROGRAMME	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
SPECIALISATION	**Agronomy Agrometeorology**	**Agronomy Soil Science**	**Agronomy Agricultural economics**	**Agronomy Animal Science**	**Agronomy Entomology**	**Agronomy Food Science**	**Agronomy Plant Breeding**	**Agronomy Plant Pathology**	**Agronomy Agrometeorology**	**Agronomy Soil Science**	**Agronomy Agricultural economics**	**Agronomy Animal Science**	**Agronomy Entomology**	**Agronomy Food Science**	**Agronomy Plant Breeding**	**Agronomy Plant Pathology**
2017 CODE	**BC541312**	**BC541344**	**BC541311**	**BC541315**	**BC541327**	**BC541329**	**BC541341**	**BC541342**	**BC541312**	**BC541344**	**BC541311**	**BC541315**	**BC541327**	**BC541329**	**BC541341**	**BC541342**
YEAR	**FIRST**								**FIRST**							
SEMESTER	**FIRST**								**SECOND**							
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	AGEC1514 BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	AGEC1624 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 BLGY1683 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508								CSIL1521							
	SECOND								**SECOND**							
SEMESTER	**FIRST**								**SECOND**							
COMPULSORY C2	CROP2614 SOIL2614 CLIM2614	CROP2614 SOIL2614 CLIM2614	CROP2614 AGEC2614 SOIL2614	CROP2614 ANIG2614 BOCH2614	CROP2614 ENTO2616 SOIL2614	CROP2614 BOCH2614 FSCC2613 FSCI2613	CROP2614 SOIL2614 CLIM2614 PLTB2613	CROP2614 SOIL2614 CLIM2614 PLTB2613	CROP2624 SOIL2624 CLIM2624	CROP2624 SOIL2624 CLIM2624	CROP2624 SOIL2624 AGEC2624	CROP2624 CLIM2624 ANIG2624	CROP2624 ENTO2626 SOIL2624	CROP2624 FSCC2622 FSCS2624	CROP2624 PLTB2623 PPLG2624	CROP2624 PLTB2623 PPLG2624
ELECTIVES	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** BOCH2614 ENTO2614 GRAS2614	**ONE OF:** BOCH2614 ENTO2614 CLIM2614 GRAS2614	**ONE OF:** ENTO2614 SOIL2614 GRAS2614	**ONE OF:** BOCH2614 CLIM2614	**ONE OF:** ENTO2614 SOIL2614 CLIM2614 GRAS2614			**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 CLIM2624 PLTB2623 PPLG2624	**ONE OF:** SOIL2624 PLTB2623 PPLG2624 WDMT2624	**ONE OF:** CLIM2624 PPLG2624	**ONE OF:** SOIL2624 CLIM2624	**ONE OF:** SOIL2624 AGEG2624 CLIM2624	**ONE OF:** SOIL2624 AGEG2624 CLIM2624
YEAR	**THIRD**								**THIRD**							
SEMESTER	**FIRST**								**SECOND**							
COMPULSORY C3	CROP3714 CLIM3714 SOIL3714	CROP3714 SOIL3714 CLIM3714	CROP3714 SOIL3714 AGEC3714	CROP3714 ANIP3714 ANIB3714 ANIN3734	CROP3714 ENTO3714 ENTO3754	CROP3714 FSCA3714 FSCE3714 NUTE3714	CROP3714 PLTB3714 SOIL3714	CROP3714 PPLG3714 PPLG3734	CROP3724 CLIM3724 SOIL3724	CROP3724 SOIL3724 CLIM3724	CROP3724 AGEC3724 SOIL3724	CROP3724 ANIP3724 ANIB3724 ANIN3744	CROP3724 ENTO3724 ENTO3744	CROP3724 FSCP3724 FSCB3724	CROP3724 PLTB3724 PLTB3744	CROP3724 PPLG3724 PPLG3744
ELECTIVES	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** AGEG3714 CLIM3714 GRAS3714		**ONE OF:** SOIL3714 CLIM3714 PLTB3714		**ONE OF:** CLIM3714 PPLG3714	**ONE OF:** SOIL3714 CLIM3714 PLTB3714	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** AGEG3724 CLIM3724 PPLG3724 GRAS3724		**ONE OF:** SOIL3724 CLIM3724 PPLG3724	**ONE OF:** SOIL3724 AGEG3724 CLIM3724 PLTB3724	**ONE OF:** SOIL3724 AGEG3724 CLIM3724 PPLG3724	**ONE OF:** SOIL3724 AGEG3724 CLIM3724 PLTB3724
YEAR	**FOURTH**								**FOURTH**							
SEMESTER	**FIRST**								**SECOND**							
COMPULSORY C3	CROP4814 CROP4834 SCCS4814	CROP4814 CROP4834 SCCS4814	CROP4814 CROP4834 SCCS4814 AGEC4814 AGEC4834	CROP4814 CROP4834 SCCS4814	CROP4814 CROP4834 SCCS4814	CROP4814 CROP4834 SCCS4814 FSCP4814	CROP4814 CROP4834 SCCS4814	CROP4814 CROP4834 SCCS4814 PPLG4834	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824 AGEC4844	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824 ENTO6884	CROP4824 CROP4844 SCCS4824 FSCG4826/ VWS425	CROP4824 CROP4844 SCCS4824 PLTB4824	CROP4824 CROP4844 SCCS4824
ELECTIVES	**ONE OF:** CLIM4814 CLIM4834	**ONE OF:** SOIL4814 SOIL4834		**ONE OF:** ANIP4814 ANIB4814 ANIN4834	ENTO6854 ANIN4834	FSCD4814	**ONE OF:** PLTB4814 PLTB4834 PLTB4854		**ONE OF:** CLIM4824 CLIM4844	**ONE OF:** SOIL4824 SOIL4844		**ONE OF:** ANIP4824 ANIB4824 ANIN4864				**ONE OF:** PPLG4824 PPLG4844

11.4.2.3 AGRICULTURAL SCIENCES FIELD OF STUDY 3: SOIL SCIENCE BC544412, BC544413, BC544411, BC544451, BC544436, BC544442

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES IN SOIL SCIENCE FIELD OF STUDY 3

Learning programmes in the **Soil Science** as main **field of study** offer 6 options with a combination of Soil Science as a major for specialisation in the fourth year and a minor from either one of Agrometeorology, Agronomy, Agricultural Economic, Agricultural Engineering, Grassland Science or Plant Pathology. Each student registers for all the compulsory modules (row C1, C2, C3, C4) during the four years of study and combines it with all the compulsory modules for the minor. If a student wants to register for the Agricultural Economics minor two extra modules for the first year are required.

LEARNING PROGRAMME	1	2	3	4	5	6	1	2	3	4	5	6
SPECIALISATION	**Soil Science Agrometeorology**	**Soil Science Agronomy**	**Soil Science Agricultural economics**	**Soil Science Grassland Science**	**Soil Science Agricultural Engineering**	**Soil Science Plant Pathology**	**Soil Science Agrometeorology**	**Soil Science Agronomy**	**Soil Science Agricultural economics**	**Soil Science Grassland Science**	**Soil Science Agricultural Engineering**	**Soil Science Plant Pathology**
2017 CODE	**BC544412**	**BC544413**	**BC544411**	**BC544436**	**BC544462**	**BC544442**	**BC544412**	**BC544413**	**BC544411**	**BC544436**	**BC544462**	**BC544442**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624 AGEC1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	CROP2614 SOIL2614 CLIM2614	CROP2614 SOIL2614 CLIM2614	CROP2614 SOIL2614 AGEC2614	SOIL2614 CLIM2614 GRAS2614	CROP2614 SOIL2614 CLIM2614	CROP2614 SOIL2614 CLIM2614	CROP2624 SOIL2624 CLIM2624	CROP2624 SOIL2624 CLIM2624	CROP2624 SOIL2624 AGEC2624	CROP2624 SOIL2624 CLIM2624	CROP2624 SOIL2624 AGEG2624	CROP2624 SOIL2624 PPLG2624
ELECTIVES	**ONE OF:** BOCH2614 GRAS2614	**ONE OF:** BOCH2614 GRAS2614	**ONE OF:** BOCH2614 CLIM2614 GRAS2614	**ONE OF:** BOCH2614 CROP2614 ANIG2614	**ONE OF:** BOCH2614 GRAS2614	**ONE OF:** BOCH2614 GRAS2614 PLTB2613	**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 CLIM2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 PLTB2623 PPLG2624 WDMT2624	**ONE OF:** CLIM2624 PLTB2623 PPLG2624	**ONE OF:** AGEG2624 CLIM2624 PLTB2623
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	SOIL3714 CLIM3714 CROP3714	SOIL3714 CROP3714 CLIM3714	SOIL3714 AGEC3714	SOIL3714 GRAS3714 CROP3714	CROP3714 SOIL3714 AGEG3714	SOIL3714 PPLG3714 PPLG3734	SOIL3724 CLIM3724 CROP3724	SOIL3724 CROP3724 CLIM3724	SOIL3724 AGEC3724	SOIL3724 GRAS3724	CROP3724 SOIL3724 AGEG3724	SOIL3724 PPLG3724 PPLG3744
ELECTIVES	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** AGEG3714 GRAS3714	**ONE OF:** CROP3714 CLIM3714 **ONE OF:** AGEG3714 GRAS3714	**ONE OF:** AGEG3714 CLIM3714	**ONE OF:** CLIM3714 GRAS3714	**ONE OF:** CROP3714 CLIM3714 PLTB3714 AGEG3714	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** CROP3724 CLIM3724 **ONE OF:** AGEG3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** CROP3724 CLIM3724 **ONE OF:** AGEG3724 PLTB3724 ANIG3724	**ONE OF:** CLIM3724 PLTB3724 PPLG3724 GRAS3724	**ONE OF:** CROP3724 AGEG3724 CLIM3724 PLTB3724 GRAS3724
YEAR	**FOURTH**						**FOURTH**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C4	SCCS4814 SOIL4814 SOIL4834 **ONE OF:** CLIM4814 CLIM4834	SCCS4814 SOIL4814 SOIL4834 **ONE OF:** CROP4814 CROP4834	SCCS4814 SOIL4814 SOIL4834 AGEC4834	SCCS4814 SOIL4814 SOIL4834 **ONE OF:** GRAS4814 GRAS4834	SCCS4814 CROP4834 SOIL4814 AGEG4814	SCCS4814 SOIL4814 SOIL4834 PPLG4834	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** CLIM4824 CLIM4844	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** CROP4824 CROP4844	SCCS4824 SOIL4824 SOIL4844 AGEC4844	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** GRAS4824 GRAS4844	SCCS4824 CROP4824 SOIL4824 AGEG4824	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** PPLG4824 PPLG4844

12.4.2.4 AGRICULTURAL SCIENCES FIELD OF STUDY 4: ANIMAL, WILDLIFE AND GRASSLAND SCIENCES BC541536, BC543615, BC541511, BC543644

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES IN THE ANIMAL, WILDLIFE AND GRASSLAND SCIENCES FIELD OF STUDY 4

Learning programmes in the **Animal, Wildlife and Grassland Sciences** Field of study offers FOUR options with a combination of either **Animal or Wildlife and Grassland Sciences** as a major for specialisation in the fourth year and a minor from either one of them or Agricultural Economics and Soil Science to offer until third year level. Each student registers for all the compulsory modules (row C1, C2, C3, C4) during the four years of study and combines it with all the compulsory modules for the minor: Animal Sciences, Agricultural Economics, Soil Sciences or Wildlife and Grassland Sciences. All the compulsory modules for the minor is required. Students must register for sufficient modules (supportive electives) to obtain at least 120 credits for each of the first and the second year of study.

DISCIPLINE	**ANIMAL & GRASSLAND SCIENCES**	**GRASSLAND & ANIMAL SCIENCES**	**ANIMAL SCIENCES & AGRICULTURAL ECONOMICS**	**GRASSLAND & SOIL SCIENCES**	**WILDLIFE PRODUCTION**	**ANIMAL & GRASSLAND SCIENCES**	**GRASSLAND & ANIMAL SCIENCES**	**ANIMAL SCIENCES & AGRICULTURAL ECONOMICS**	**GRASSLAND & SOIL SCIENCES**	**WILDLIFE PRODUCTION**
2017 CODE	**BC541536**	**BC543615**	**BC541511**	**BC543644**	**BC543689**	**BC541536**	**BC543615**	**BC541511**	**BC543644**	**BC543689**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534 AGEC1514	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	ANIG2614 BOCH2614 AGEC2614 GRAS2614	GRAS2614 SOIL2614 ANIG2614 **ONE OF:** AGEC2614 CLIM2614	ANIG2614 BOCH2614 AGEC2614 **ONE OF:** AGEC3714 AGEC3734	GRAS2614 SOIL2614 CLIM2614 **ONE OF:** CROP2614 BOCH2614 ANIG2614	ANIG2614 GRAS2614 SOIL2614 **ONE OF:** BOCH2614 AGEC2614	ANIG2624 ANIB2624 STSA1624 **ONE OF:** AGEC1624 AGEC2624 WDMT2624	ANIG2624 SOIL2624 WDMT2624 **ONE OF:** AGEC1624 AGEC2624 STSA1624	STSA1624 AGEC1624 AGEC2624 ANIB2624	SOIL2624 AGEG2624 **ONE OF:** CROP2624 WDMT2624 **ONE OF:** AGEC1624 AGEC2624	WDMT2624 ANIB2624 STSA1624 AGEC2624
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	ANIP3714 ANIB3714 ANIN3734 GRAS3714 DATA3712	GRAS3714 ANIP3714 SOIL3714 ANIG3714 DATA3712	ANIP3714 ANIB3714 ANIN3734 DATA3712 **ONE OF:** AGEC3714 AGEC3734	GRAS3714 SOIL3714 CLIM3714 DATA3712 **ONE OF:** CROP3714 ANIG3714 WDMT3714	GRAS3714 ANIB3714 ANIP3714 WDMT3714 DATA3712	ANIP3724 ANIB3724 ANIN3744 **ONE OF:** GRAS3724 WILD3764	GRAS3724 ANIP3724 ANIN3764 SOIL3724	ANIB3724 ANIN3744 ANIP3724 **ONE OF:** AGEC3744 AGEC3724 WILD3764	SOIL3724 GRAS3724 **TWO OF:** CROP3724 ANIG3724 ANIG3744	ANIP3724 GRAS3724 WILD3764 **ONE OF:** GENE3744 ANIN3744
YEAR	**FOURTH**					**FOURTH**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C4	ANIP4814 ANIB4814 ANIN4834 ANIG4808	ANIP4814 GRAS4814 GRAS4834 GRAS4808	ANIP4814 ANIB4814 ANIN4834 ANIG4808	GRAS4814 GRAS4834 GRAS4808 **ONE OF:** SOIL4814 SOIL4834	WILD4814 WILD4856 WILD4808 **ONE OF:** GRAS4814 GRAS4834	ANIP4824 ANIB4824 ANIN4864	GRAS4824 GRAS4844 WILD4826	ANIP4824 ANIB4824 ANIN4864	GRAS4844 GRAS4824 **ONE OF:** SOIL4824 SOIL4844	ANIB4824 WILD4826 **ONE OF:** GRAS4824 GRAS4844

12.4.2.5. AGRICULTURAL SCIENCES FIELD OF STUDY 5: FOOD SCIENCES BC542913, BC542915

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES IN THE FOOD SCIENCES FIELDS OF STUDY 5

Learning programmes in the **Food Science** Field of study offer 2 options with a combination of **Food Science** as a major for specialisation in the fourth year and a minor from either fields of study of Agronomy, Animal Sciences, Biochemistry, Chemistry or Microbiology. Each student selects at least a major from Food Science and registers for all the compulsory modules (row C1, C2, C3, C4) the four years of study and combines it with all the compulsory modules for the minor. All the compulsory modules for the minors are required. Students must register for sufficient modules (supportive electives) to obtain at least 120 credits for each of the first and the second year of study.

DISCIPLINE	**FOOD SCIENCE & AGRONOMY**	**FOOD & ANIMAL SCIENCES**	**FOOD SCIENCE & AGRONOMY**	**FOOD & ANIMAL SCIENCES**
2017 CODE	**BC542913**	**BC542915**	**BC542913**	**BC542915**
YEAR	**FIRST**		**FIRST**	
SEMESTER	**FIRST**		**SECOND**	
COMPULSORY C1	BLGY1513 CHEM1513+CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+CHEM1551 PHYS1534 MATM1534	BLGY1683 BLGY1643 CHEM1643+CHEM1661 SCCS1624 ANIG1624	BLGY1683 BLGY1643 CHEM1643+CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508		CSIL1521	
YEAR	**SECOND**		**SECOND**	
SEMESTER	**FIRST**		**SECOND**	
COMPULSORY C2	BOCH2614 MCBP2616 CROP2614 FSCC2613 FSCI2613	BOCH2614 MCBP2616 ANIG2614 FSCC2613 FSCI2613	CROP2624 FSCC2622 FSCS2624 MCBP2626	FSCC2622 FSCS2624 ANIG2624 **ONE OF:** ANIB2624 AGEC1624
YEAR	**THIRD**		**THIRD**	
SEMESTER	**FIRST**		**SECOND**	
COMPULSORY C3	CROP3714 FSCA3714 FSCE3714 MCBG3714	FSCA3714 FSCE3714 ANIP3714 ANIN3734	FSCP3724 FSCB3724 CROP3724 DATA3722	FSCP3724 FSCB3724 ANIP3724 DATA3722 ANIN3744
YEAR	**FOURTH**		**FOURTH**	
SEMESTER	**FIRST**		**SECOND**	
COMPULSORY C4	FSCP4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCP4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCG4826	FSCG4826

12.4.2.6 AGRICULTURAL SCIENCES FIELD OF STUDY 6: PLANT BREEDING AND PLANT PATHOLOGY BC544113, BC544136, BC544142, BC544213, BC544241

LEARNING PROGRAMMES IN BACHELOR OF AGRICULTURAL SCIENCES IN PLANT BREEDING AND PLANT PATHOLOGY FIELD OF STUDY 6

Learning programmes in **PLANTBREEDING AND PLANT PATHOLOGY Field of study** offer FOUR options with a combination of either **PLANT BREEDING AND PLANT PATHOLOGY** as a major for specialisation in the fourth year and a minor from either one of the PLANT BREEDING and one of the two fields of study or from Grassland and Agronomy to offer until third-year level. Each student selects at least a major from **PLANT BREEDING AND PLANT PATHOLOGY** and registers for all the compulsory modules (row C1, C2, C3, and C4) for the four years of study and combines them with all the compulsory modules for the minor: Agronomy. All the compulsory modules for the minor are required. Students must register for sufficient modules (supportive electives) to obtain at least 120 credits for each of the first and the second year of study.

DISCIPLINE	**PLANT BREEDING & PLANT PATHOLOGY**	**PLANT PATHOLOGY & AGRONOMY/PLANT BREEDING**	**PLANT BREEDING & GRASSLAND SCIENCES**	**PLANT BREEDING & AGRONOMY**	**PLANT BREEDING & PLANT PATHOLOGY**	**PLANT PATHOLOGY & AGRONOMY/PLANT BREEDING**	**PLANT BREEDING & GRASSLAND SCIENCES**	**PLANT BREEDING & AGRONOMY**
2017 CODE	**BC544142**	**BC544241**	**BC544136**	**BC544113**	**BC544142**	**BC544241**	**BC544136**	**BC544113**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1513 CHEM1513+ CHEM1551 PHYS1534 MATM1534	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1643+ CHEM1661 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508				CSIL1521			
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	BTNY2616 SOIL2614 PLTB2613	BTNY2616 CROP2614 PLTB2613 SOIL2614	BTNY2616 SOIL2614 GRAS2614 PLTB2613	BTNY2616 SOIL2614 CROP2614 PLTB2613	ANIB2624 BTNY2626+BTNY2622 PLTB2623 PPLG2624	CROP2624 PLTB2623 ANIB2624 PPLG2624	BTNY2626+BTNY2622 PLTB2623 ANIB2624	CROP2624 BTNY2626+BTNY2622 PLTB2623 ANIB2624
ELECTIVES								
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	PLTB3714 PPLG3714 PPLG3734 SOIL3714	PLTB3714 PPLG3714 PPLG3734 CROP3714	GRAS3714 PLTB3714 BTNY3754	CROP3714 PLTB3714 BTNY3754	PLTB3724 PLTB3744 PPLG3744 PPLG3724	PLTB3724 PPLG3724 PPLG3744 CROP3724	GRAS3724 BTNY3744 PLTB3724 PLTB3744	CROP3724 BTNY3744 PLTB3724 PLTB3744
ELECTIVES			SOIL3714 CLIM3714 PPLG3714	PPLG3714 SOIL3714 CLIM3714				
YEAR	**FOURTH**				**FOURTH**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C4	PLTB4814 PLTB4834 PLTB4854 PLTB4808 PLTB4806	PLTB4854 PPLG4834 PPLG4806 PPLG4808	PLTB4814 PLTB4834 PLTB4854 PLTB4808 PLTB4806	PLTB4814 PLTB4834 PLTB4854 PLTB4808 PLTB4806	PLTB4824	PPLG4824 PPLG4844	PLTB4824	PLTB4824

12.5 LEARNING PROGRAMMES FOR POSTGRADUATE DIPLOMAS

12.5.1 POSTGRADUATE DIPLOMA IN DISASTER MANAGEMENT BC450025

The Postgraduate Diploma in Disaster Management contains 120 credits and is presented in a minimum period of one year plus another year. The Dean may, however, give special permission that another additional year be granted to complete the qualification.

The programme consists of eight compulsory modules and a field visit in one of the modules . The programme requires practical assignments to be completed by students and submitted at predetermined dates. Assignments will be marked and graded by the lecturers, who will give students feedback in a written format and also orally during contact sessions. Assignments will be part of a continual assessment process. Apart from the assignments, a formal examination assessment (written) will take place at the end of each semester, normally during June and November.

First Semester	Credits	Second Semester	Credits
DIMI5810 Introduction to disaster management	15	DIMS5820 Strategic Disaster Management	20
DIMR5810 Research Design and Methodology	15	DIMN5820 Management of Natural and Human-made Disasters	15
DIML5810 Legal and Institutional arrangements for Disaster Managers	15	DIMT5820 Information Technology in Disaster management	10
DIMM5810 Theoretical Models for disaster risk reduction	15	DIMP5820 Public Health in Disaster Management	15

12.5.2 POSTGRADUATE DIPLOMA IN ENVIRONMENTAL MANAGEMENT BC450060 (Pending approval, implementation 2018)

LEARNING PROGRAMMES FOR POSTGRADUATE DIPLOMA IN ENVIRONMENTAL MANAGEMENT PGDip (Environmental Management)

Upon completion of the qualification students will be able to:

- Apply a holistic, integrated approach to solving complex environmental problems by making use of social and ecological assessment and project management tools;
- Identify, interpret and implement the theory and applied knowledge related to environmental resources and processes and environmental sustainability and assessment practices;
- Critically analyse the relationships between human development and the environment and to discriminate between beneficial and detrimental environmental practices; and
- Make informed decisions, guided by ethical standards, scientific evidence and societal needs within the context of environmental management.

The programme offered is interdisciplinary and will be presented by the Faculty of Natural and Agricultural Sciences in conjunction with the Faculties of Economic and Management Sciences, Law and Humanities under the control of the Centre for Environmental Management and a management committee. It is offered over a minimum period of one year with a total of 120 credits. Successful completion of this qualification could give candidates access to a new qualification, the Master of Science (Environmental Management), which will be instituted in 2018.

YEAR	FIRST	FIRST
SEMESTER	FIRST	SECOND
COMPULSORY C1	ENMT5810	ENMT5826 ENMT5820

12.5.3 POSTGRADUATE DIPLOMA IN INTEGRATED WATER MANAGEMENT BC450091

LEARNING PROGRAMMES FOR POSTGRADUATE DIPLOMA IN INTEGRATED WATER MANAGEMENT PGDip (Integrated Water Management)

Upon completion of the qualification students will be able to:

- Apply a holistic, integrated approach to solving complex environmental problems relating to water by making use of social and ecological assessment and project management tools;
- Identify, interpret and implement the theory and applied knowledge related to water resources and processes and environmental sustainability and assessment practices;
- Critically analyse the relationships between human development and the environment and to discriminate between beneficial and detrimental environmental practices as they relate to water; and
- Make informed decisions, guided by ethical standards, scientific evidence and societal needs within the context of integrated water management.

The programme offered is interdisciplinary and will be presented by the Faculty of Natural and Agricultural Sciences in conjunction with the Faculties of Economic and Management Sciences, Law and the Humanities under the control of the Centre for Environmental Management and a management committee. It is offered over a minimum period of one year with a total of 120 credits.

Successful completion of this qualification could give candidates access to a new qualification, the Master of Science (Integrated Water Management), which will be instituted in 2018.

YEAR	FIRST	FIRST
SEMESTER	FIRST	SECOND
COMPULSORY C1	IWMT5810	IWMT5826 IWMT5820

12.6 LEARNING PROGRAMMES FOR BACHELOR HONOURS DEGREES (NQF LEVEL 8)

12.6.1 **BACHELOR OF ARCHITECTURE HONOURS** BC460114

The Bachelor of Architecture Honours [BArchHons] is a full-time postgraduate degree by coursework and involves lectures, projects, and continuous assessment. The purpose of the qualification is to educate students who may register for the degree Master of Architecture (Professional) that will enable successful students to register as "Student Architect" with the South African Council for the Architectural Profession in terms of the provisions of the Architectural Profession Act 44 of 2000. The degree BArch provides access to the Master of Architecture (Professional) Degree.

The assessments and examinations for the degree BArchHons are recognised by the minister concerned in terms of the provisions of the Architectural Profession Act (Act 44 of 2000). Training experience after completion of the BArchHons degree will be controlled by the conditions of the South African Council for the Architectural Profession. The registrar of this Council will provide information in this regard.

YEAR	FIRST	SECOND
COMPULSORY	DESN6800 Design CONS6808 Construction HURB6804 History of Urban Settlement RARC6808 Research in Theory of Architecture EOKR6804 Property economics	
	DMET6812 Design methodology	RMET6822 Research methodology

12.6.2 **BACHELOR OF AGRICULTURE HONOURS** BC460152, BC460172, BC460190

BACHELOR OF AGRICULTURE HONOURS

The aims of this degree are:

(a) to give the student the opportunity to do in-depth specialisation of his/her choice to broaden his/her knowledge with respect to agriculture, rural development and agricultural management;
(b) to prepare the student for further postgraduate study;
(c) to lead the student in independent study of the main subject or field of specialisation; and
(d) to develop, through the Honours Degree in Agricultural Management, the student's managerial skills in a variety of functional areas in agricultural enterprise management and development and the management of agricultural businesses.

A minimum of 120 credits must be obtained over the year and the department will announce the starting dates for classes.

BACHELOR OF AGRICULTURE HONOURS

	Agricultural Management	Irrigation Management	Wildlife Management
2017 CODE	BC560052	BC560072	BC560090
CREDITS	144 credits	120 credits	120 credits
	AGMA6824 AGMA6814 AGMA6834 AGMA6844 AGMA6854 AGMA6864 AGMA6884 AGMA6808	AGMA6874 IRRI6808 IRRI6816 IRRI6826 IRRI6846	AGMA6874 WDMT6816 WDMT6846 WDMT6826 WDMT6808

BACHELOR OF AGRICULTURE HONOURS MAJORING IN AGRICULTURAL ECONOMICS BC560011

	FIRST SEMESTER	SECOND SEMESTER
COMPULSORY	AGEC6808 Agricultural Economics Research project AGEC6814 Macro economics AGEC6834 Production economics AGEC6894 Agricultural financing AGMA6834 Production management	AGMA6824 Advanced agricultural management AGEC6884 Agricultural marketing and price analysis
ELECTIVES		**ONE OF:** AGEM6824Advanced resource and environmental economics AGBS6824 Agribusiness management

12.6.3 BACHELOR OF SCIENCE HONOURS IN CONSUMER SCIENCE BC460023

To obtain a Bachelor Honours Degree a minimum study period of one year is required. The composition of the student's curriculum and optional courses will be determined at the beginning of each year in consultation with the Academic Departmental Head. A minimum of 120 credits must be presented. The Academic Departmental Head determines how the modules must be distributed over the year and when the department will announce the starting dates for classes.
After completing the Honours learning programmes the graduates will possess the following skills:

- Knowledge of and engagement in an area at the forefront of a field, discipline or practice.
- An understanding of the theories, research methodologies, methods and techniques relevant to the field, discipline or practice; and an understanding of how to apply this knowledge in a particular context.
- An ability to interrogate multiple sources of knowledge in an area of specialisation, and to evaluate knowledge and processes of knowledge production.
- An understanding of the complexities and uncertainties of selecting, applying or transferring appropriate standard procedures, processes or techniques to unfamiliar problems in a specialised field, discipline or practice.
- An ability to critically review information gathering, assessment and management processes in specialised contexts in order to develop creative responses to problems and issues.
- An ability to present and communicate academic, professional or occupational ideas and texts effectively to a range of audiences, offering creative insights, rigorous interpretations and solutions to problems and issues appropriate to the context.

A student must register for the compulsory research modules of 36 credits and do research on an approved topic in consultation with the Academic Departmental Head. More modules must be selected from the possible electives to obtain at least 120 credits.

FIRST	SECOND
COMPULSORY	
CNCS6809	
ELECTIVES	CNCS6824
CNCS6814	CNST6824
CNCS6834	CNST6844
CNST6814	CNST6864
CNST6834	
CNST6853	
CNFD6808	
NUTE6808	
CNST6854	

12.6.4 BACHELOR OF SPATIAL PLANNING HONOURS BC460145

After completing the programme, the graduates will possess the following skills:

- A thorough knowledge of the aims and purpose of urban and regional planning as well as planning theory, urban planning theory, regional planning theory, philosophy and ethics.
- The ability to practically apply theory in urban and regional planning projects e.g. the capacity to analyse issues from a theoretical and/or empirical perspective and to recommend suitable alternatives.
- The ability to apply and understand economics for planners, socio-cultural aspects in planning and environmental planning; and link these to the everyday tasks and activities of urban and regional planners.
- The capacity to communicate clearly and logically, write good planning and research reports and debate these with stakeholders.

A minimum of 140 credits must be presented for the BSPHons programme. To obtain the Honours in Spatial Planning a minimum study period of one year is required. Residential and Compact Learning can be conducted full-time over 12 months or 24 months part-time or in block weeks where attendance take place in 4-5 block weeks in a year.

Compact learning students must attend compulsory workshop weeks at the department for the duration of the programme at times as determined by the Academic Departmental Head. Students who register as full-time or part-time will also be expected to attend some classes, sessions, guest lectures, field trips, site visits, tours, tests and examinations during the block weeks. During classes, lectures, tutorials, practicals and discussions will take place. Assignments will be done and tests and examinations may also be written during the block weeks.

The Academic Departmental Head determines how the modules must be distributed over the years of study and in all programmes (full-time, part-time and compact learning). The modules may be spread over an additional year if a student does not have the necessary academic background.

This degree does not enable registration at the South African Council for Planners (SACPLAN).

Full-time	**Compulsory semester modules:** URRE6814 / URRE6824 URSC6814 / URSC6824 URLM6814 / URLM6824 UREP6814 / UREP6824
	Compulsory year modules: URRT6805 URUT6804 URPT6804 URBP6806
Compact Learning and Part-Time	Year 1
	Compulsory semester modules: URRE6814 / URRE6824 URSC6814 / URSC6824 URLM6814 / URLM6824 UREP6814 / UREP6824
	Year 2
	Compulsory year modules: URRT6805 URUT6804 URPT6804 URBP6806

12.6.5 BACHELOR OF SCIENCE HONOURS

12.6.5.1 BACHELOR OF SCIENCE HONOURS MAJORING IN AGRICULTURAL ECONOMICS BC460011

Students must register for all compulsory modules plus enough others to obtain at least 120 credits.

	FIRST SEMESTER	SECOND SEMESTER
COMPULSORY	AGEC6808 Agricultural Economics Research project AGEC6814 Macro economics AGEC6834 Production economics AGEC6854 Operational research AGEC6874 Agricultural econometrics AGEC6894 Agricultural financing	AGEC6884 Agricultural marketing and price analysis
ELECTIVES		**ONE OF:** AGEM6824Advanced resource and environmental economics AGBS6824 Agribusiness management

12.6.5.2 BACHELOR OF SCIENCE HONOURS BC460018, BC460019, BC460020, BC460027, BC460061, BC460029, BC560029, BC460030, BC460067, BC460065, BC460031, BC460076, BC460039, BC460041, BC460082, BC460042, BC460089, BC460049

Students must register for all compulsory modules plus enough others to obtain at least 120 credits. This degree is awarded in the following fields: * Modules not always presented

DISCIPLINE	BEHAVIOURAL GENETICS	BIOCHEMISTRY	BOTANY	ENTOMOLOGY	ENVIRONMENTAL REHABILITATION	FOOD SCIENCES		FORENSIC SCIENCES	
						2016 FOR BScAGRIC STUDENTS	2016 FOR BSc FOOD SCIENCE STUDENTS	FORENSIC SCIENCES	FORENSIC GENETICS
2017 CODE	**BC460018**	**BC460019**	**BC460020**	**BC460027**	**BC460061**	**BC560029**	**BC460029**	**BC460030**	**BC460067**
COMPULSORY	GENE6816 GENE6808 GENH6814/6824 *GENB6814/ GENP6814/6824 GENE6834/6844	BOCT6814 BOCO6822 BOCM6814 BOCL6826 BOCR6828 BOCB6814	PLTB6854 BTNY6806 BTNY6808	ENTO6814 ENTO6822 ENTO6832 ENTO6842 ENTO6808	SCCS6814 LENV6824 ENRH6806 ENRH6808	VWS693 FSCR6813	FSCL6806 FSCR6808	FORS6816 FORS6808 FORS6814/6824 FORC6824	FORG6816 FORG6808 *FORG6814/ FORG6824 *FORG6834/ FORG6844 *FORG6854/ FORG6864 *GENP6814/ GENP6824
ELECTIVES	GENP6814/6824 GENE6834/6844	BOCE6824 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	BTNY6814 BTNY6824 BTNY6834 BTNY6844 BTNY6854 BTNY6864 BTNY6874 BTNY6884 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	ENTO6854 ENTO6864 ENTO6874 ENTO6884 ENTO6894 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	SOIL6814 SOIL6824 BTNY6814 BTNY6864	One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	FSCP6814 FSCD6814 FSCM6814 FSCG6826	FORS6834/6844 FORS6854/6864 CHEM6873 CHEM6883	

DISCIPLINE	GENETICS	MICROBIOLOGY	PLANT BREEDING	PLANT HEALTH ECOLOGY	PLANT PATHOLOGY	WILDLIFE	ZOOLOGY
2017 CODE	**BC460031**	**BC460039**	**BC460041**	**BC460082**	**BC460042**	**BC460089**	**BC460049**
COMPULSORY	GENE6816 GENE6808 GENE6814/GENE6824	MCBT6814 MCBO6822 MCBL6826 MCBR6828	PLTB6814 PLTB6824 PLTB6834 PLTB6854 PLTB6806 PLTB6808	PPLG6806 PPLG6808 PLTB6854 SOIL6844 PPLG6824	PLTB6854 PPLG6806 PPLG6808 PPLG6844 PPLG6824 PPLG6834	WILD6816 WILD6856 WILD6826 WILD6808 WILD6806	ZLGY6814 ZLGY6822 ZLGY6832 ZLGY6842 ZLGY6808
ELECTIVES	GENE6834/GENE6844 GENM6814/GENM6824 GENH6814/GENH6824 GENP6814/GENP6824 GENB6814/GENB6824 FORG6834/FORG6844 GENS6814/GENS6824	MCBD6834 MCBP6844 MCBM6814 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.		CROP6814 CROP6844 ENTO6854 ENTO6884 CLIM6824 PPLG6834 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.			ZLGY6834 ZLGY6854 ZLGY6864 ZLGY6874 ZLGY6884 ZLGY6894 One 16-credit NQF Exit Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.

12.6.5.3 BACHELOR OF SCIENCE HONOURS MAJORING IN CONSTRUCTION MANAGEMENT BC460024, BC460043

LEARNING PROGRAMMES FOR CONSTRUCTION MANAGEMENT HONOURS (PROGRAM CODE: M4091)

Each student complete all the compulsory modules (row C1/C2) and select enough electives to obtain at least 120 credits.

YEAR	FIRST			SECOND	
CREDITS: 132	**CREDITS 68**	**CREDITS 132**		**CREDITS 64**	
MODE	**OPEN**	**RESIDENTIAL**		**OPEN**	**RESIDENTIAL**
2017 CODE	BC460024	BC460024		BC460024	BC460024
COMPULSORY SEMESTER 1	CPOD6804 BPDD6812 BPPD6812	CPOR6804 COMR6804 BIPR6812 BPPR6812 BPDR6812 CRPR6808 BPMR6804	C2	COMD6804 BIPD6804 CRPD6808 BPMD6804	
COMPULSORY SEMESTER 2	CTID6822 BCFD6822 BPCD6822	CTIR6822 BCFR6822 BPCR6822			

BACHELOR OF SCIENCE HONOURS MAJORING IN QUANTITY SURVEYING BC460024, BC450043

LEARNING PROGRAMMES FOR QUANTITY SURVEYING HONOURS (PROGRAM CODE: M4091)

Each student select all the compulsory modules (row C1/C2) from the prescribed discipline for one study year. Students must select sufficient module credits from the electives (E) to obtain the credits for each year of study as indicated.

YEAR	FIRST			SECOND	
CREDITS: 132	**CREDITS 68**	**CREDITS 132**		**CREDITS 64**	
MODE	**OPEN**	**RESIDENTIAL**		**OPEN**	**RESIDENTIAL**
2017 CODE	BC450043	BC450043		BC450043	BC450043
COMPULSORYC1	QDQD6804 QBER6812 QBED6812 BPPD6812	QDQR6804 QBER6812 QBER6812 BPPR6812 QRPR6808 BIPR6804 BPDR6812 BPMR6804	**C2**	QRPR6808 BIPR6804 BPDR6812 BPMR6804	
COMPULSORY SEMESTER 2	BCFD6822 QBED6822 BPQD6822	BCFR6822 QBER6822 BPQR6822			

12.6.5.4 BACHELOR OF SCIENCE HONOURS LEARNING PROGRAMMES IN PHYSICAL AND CHEMICAL SCIENCES

Students must register for all compulsory modules plus enough others to obtain at least 120 credits. This degree is awarded in the following fields:

DISCIPLINE	CHEMISTRY	PHYSICS		ASTROPHYSICS	AGROMETEOROLOGY (from 2016)	ENGINEERING SUBJECTS
	FIRST & SECOND	FIRST	SECOND	FIRST & SECOND	FIRST & SECOND	FIRST & SECOND
2017 CODE	**BC460021**	**BC460040**		**BC460017**	**BC460012**	**BC460026**
COMPULSORY	CHEM6813 CHEM6833 CHEM6853 CHEM6873 CHEM6823 CHEM6843 CHEM6883 CHEM6863 CHEM6808	PHYS6808		Note that students will only be allowed to this programme if they comply with the extra admission requirements related to undergraduate astrophysics modules specified by the ADH. PHYA6808 PHYA6814/PHYA6824 PHYA6854/64 PHYA6874/84	**COMPULSORY** SCCS6814 SCCS6824 CLIM6814 CLIM6824 CLIM6834 CLIM6844 Note: Students who wish to pursue a career meteorologist are advised to complete the following modules: MATM1544 MATM2654 MATA2644	No Honours registered and students registering for the Bachelor of Science's Engineering Sciences cannot transfer directly to a Bachelor of Honours Degree; they would have to do at least three physics modules to make the migration possible.
ELECTIVES		**EIGHT OF:** (in consultation with the Academic Departmental Head) PHYS6814* PHYS6834* PHYS6854 PHYS6874* PHYR6814 PHYE6814 PHYE6834* PHYI6814 PHYI6834* PHYI6854* PHYI6874* PHYA6814 PHYA6834 PHYA6854 PHYA6874 PHYC6814 PHYC6834 PHYS6894*	PHYS6824* PHYS6844* PHYS6864 PHYS6884* PHYR6824 PHYE6824 PHYE6844* PHYI6824 PHYI6844* PHYI6864* PHYI6884* PHYA6824 PHYA6844 PHYA6864 PHYA6884 PHYC6824 PHYC6844 (Not all these modules are offered in a given year. This degree can be studied over more than one year.)	PHYS6814/24 PHYS6834/44 PHYE6814/24 PHYS6854/64 PHYI6814/24 PHYE6834/44 PHYA6834/44 PHYC6814/24 PHYC6834/44 PHYI6874/84 Note that students will only be allowed to this programme if they comply with the extra admission requirements related to undergraduate astrophysics modules specified by the ADH.	Two 16-credit NQF Exit Level 8 modules from any related discipline (s)	
		* Students wanting to do an MSc in Surface Physics are strongly recommended to register for these courses.				

12.6.5.5 BACHELOR OF SCIENCE HONOURS IN AGRICULTURE

HONOURS LEARNINGPROGRAMMES BC560012, BC560013, BC560015, BC560019, BC560036, BC560044, BC560073

Depending on the previous qualification and in consultation with the Academic Departmental Head, the students will follow one of the following curriculums in Agrometeorology, Agronomy, Animal Science, Grassland Science, Soil Science and Irrigation Science.

The objectives of the study for this degree are:
(a) to deepen and extend the student's knowledge in modules of their choice in the context of research and extension;
(b) to prepare the student for further post-graduate study;
(c) to develop independent study capability in the student;
(d) to train the student how to collect, compile, collate, interpret and report subject literature and the effective communication thereof.
A minimum of 120 credits must be obtained over the year and the department will announce the starting dates for classes.

DISCIPLINE	**AGROMETEOROLOGY**	**AGRONOMY**	**ANIMAL SCIENCE**			**GRASSLAND SCIENCE**	**SOIL SCIENCE**	**IRRIGATION SCIENCE**	**WILDLIFE**
2017 CODE	BC560012	BC560013	BC560015			BC560036	BC560044	BC560073	
SUB DISCIPLINE		**Crop Production**	**Animal Breeding**	**Animal Nutrition**	**Animal Physiology**				
COMPULSORY	CLIM6814 CLIM6824 CLIM6834 CLIM6844 SCCS6814 SCCS6824 Two 16 credits NQF Exit Level 8 modules from other related disciplines Note: Students who wish to pursue a career meteorologist are advised to complete the following modules: MATM1544 MATM2654 MATA2644	CROP6814 CROP6824 CROP6834 CROP6844 SCCS6814 SCCS6824 Two 16 credits NQF Exit Level 8 modules from other related disciplines	ANIB6814 ANIB6824 ANIB6826 ANIG6808 **ONE OF:** ANIP6814 ANIP6824	ANIG6808 ANIN6815 ANIN6825 ANIN6834 ANIN6864 ANIP6816 ANIP6814 ANIP6824 ANIB6814 ANIB6824 ANIB6826	ANIP6816 ANIP6814 ANIP6824 ANIG6808 **ONE OF:** ANIB6814 ANIB6834 ANIB6826	GRAS6805 GRAS6808 GRAS6814 GRAS6824 GRAS6834 GRAS6844 Two 16 credits NQF Exit Level 8 modules from other related disciplines	SOIL6814 SOIL6824 SOIL6834 SOIL6844 SCCS6814 SCCS6824 Two 16 credits NQF Exit Level 8 modules from other related disciplines	AGEG6814 AGEG6824 CROP6834 CLIM6824 SOIL6824 SCCS6814 SCCS 6824 **ONE OF:** CROP6814 CLIM6814 SOIL 6814	WILD6808 WILD6806 WILD6816 WILD6846 **ONE OF:** ZLGY6864 ENTO6894
ELECTI VES	CLIM6854 CLIM6864 Two 16 credits NQF Exit Level 8 modules from other related disciplines								

12.6.5.6 BACHELOR OF SCIENCE HONOURS LEARNING PROGRAMMES IN COMPUTER SCIENCE AND INFORMATICS AND MATHEMATICAL SCIENCES

Students must register for all compulsory modules plus enough others to obtain at least 120 credits. This degree is awarded in the following fields:

DISCIPLINE	COMPUTER SCIENCE AND INFORMATICS	ACTUARIAL SCIENCE		MATHEMATICS AND APPLIED MATHEMATICS		MATHEMATICAL STATISTICS	RISK ANALYSIS	APPLIED STATISTICS
2017 CODE	**BC460022**	**BC460010 (Option 1)**	**BC460010 (Option 2)**	**BC460038**		**BC460037**		**BC460046**
CREDITS	All compulsory modules plus enough others to obtain at least 120 credits							
COMPULSORY	CSIS6809 CSIS6813/CSIS6823	ACSR6808 ACSG6800 ACSL6815 STSR6825	ACSR6808 ACSL6815 STSE6815 STSP6815 STSF6825 STSM6825	MATM6819/MATM6829		STSR6808 STSB6810 STSE6815 STSP6815 STSM6825	STSR6808 STSE6815 STSS6810 STSF6825 STSF6845	STSR6808 STSF6815 STSS6810 STSC6825 STSS6825
ELECTIVES	CSIC6813/CSIC6823 CSIC6833/CSIC6843 CSIC6853/CSIC6863 CSID6813/CSID6823 CSID6833/CSID6843 CSID6853/CSID6863 CSIE6813/CSIE6823 CSIE6833/CSIE6843 CSIE6853/CSIE6863 CSIE6873/CSIE6883 CSII6813/CSII6823 CSII6833/CSII6843 CSII6853/CSII6863 CSIM6813/CSIM6823 CSIM6833/CSIM6843 CSIN6813/CSIN6823 CSIN6833/CSIN6843 CSIP6813/CSIP6823 CSIP6833/CSIP6843 CSIP6853/CSIP6863 CSIP6873/CSIP6883 CSII6883 Maximum of two approved modules from any other department within the faculty.	Special additional reguirements: 5 ASSA subject exemptions	Special additional reguirements: 4 ASSA subject exemptions	MATA6814/MATA6824 MATB6814/MATB6824 MATC6814/MATC6824 MATD6814/MATD6824 MATE6814/MATE6824 MATF6814/MATF6824 MATG6814/MATG6824 MATH6814/MATH6824 MATI6814/MATI6824 MATJ6814/MATJ6824 MATK6814/MATK6824 MATL6814/MATL6824 MATM6814/MATM6824 One approved module from another discipline	MATN6814/MATN6824 MATO6814/MATO6824 MATP6814/MATP6824 MATQ6814/MATQ6824 MATR6814/MATR6824 MATS6814/MATS6824 MATT6814/MATT6824 MATU6814/MATU6824 MATV6814/MATV6824 MATW6814/MATW6824 MATX6814/MATX6824 MATY6814/MATY6824 MATZ6814/MATZ6824 MATZ6834/MATZ6844 MATZ6854/MATZ6864			

12.6.5.7 HONOURS LEARNING PROGRAMMES IN GEOSCIENCES

Students must register for all compulsory modules plus enough others to obtain at least 120 credits. This degree is awarded in the following fields:

	GEOGRAPHY	GEO-INFORMATICS	ENVIRONMENTAL SCIENCE
2017 CODE	**BC460033**	**BC460069**	**BC450054**
SEMESTER	**FIRST**		
COMPULSORY	GEOF6816 GEOR6808	GEOF6816 GEOR6808 GISC6816 CSID6853	BTNY6808 + BTNY6806 OR ZLGY6808 + ZLGY6814 OR GEOR6808 + GEOF6816
ELECTIVES	GEOH6816 GEOP6816 GISC6816 GEOH 6836		BTNY6814 GISC6816 GEOP6816 ZLGY6832 ZLGY6834 WILD6816
SEMESTER	**SECOND**		
COMPULSORY		CSID6843 GISR6826	ENVG6826 ENVG6846
ELECTIVES	ENVG6826 ENVG6846 GISR6826		BTNY6864 ZLGY6842 ZLGY6822 ZLGY6828

SOIL SCIENCE
BC460044
FIRST
SOIL6814 SOIL6834 SCCS6814
One 16 credits NQF Exit Level 8 modules from other related disciplines
SECOND
SOIL6824 SOIL6844 SCCS6824
One 16 credits NQF Exit Level 8 modules from other related disciplines

HONOURS LEARNING PROGRAMMES IN GEOLOGY (BC460035, BC460028, BC460032) AND GEOHYDROLOGY (BC460034)

The study starts either in January or July on a date as determined by the Department of Geology and Geohydrology respectively. Modules marked by an asterisk (*) contain a research component.

These courses starts on a date as determined by the subject head. Each module must be independently passed. Students compile their own Curricula in consultation with the ADH and the programme director to obtain at least 60 credits per semester. Students intending to register with SACNASP following completion of their studies are strongly encouraged to enrol for GLGY6893

	GEOLOGY	ENVIRONMENTAL GEOLOGY	GEOCHEMISTRY	GEOHYDROLOGY	GEOLOGY	ENVIRONMENTAL GEOLOGY	GEOCHEMISTRY	GEOHYDROLOGY
2017 CODE	BC460035	BC460028	BC460032	**BC460034**	BC460035	BC460028	BC460032	**BC460034**
	FIRST SEMESTER				**SECOND SEMESTER**			
COMPULSORY	GLGY6816*	GLGY6816* GLGY6836* GLGY6873*	GLGY6816* GLGY6836* GLGY6873*	GEOH6815 GEOH6835 GEOH6855			GLGY6846*	GEOH6865 GEOH6845 GEOH6825
ELECTIVES	GLGY6836* GLGY6853* GLGY6856* GLGY6873* GLGY6893*	GLGY6893*	GLGY6893*		GLGY6823* GLGY6826* GLGY6843* GLGY6846* GLGY6863* GLGY6883*	GLGY6823* GLGY6826* GLGY6843* GLGY6846* GLGY6863* GLGY6883*	GLGY6823* GLGY6826* GLGY6843* GLGY6863* GLGY6883*	

12.7 MASTER'S DEGREES (NQF Exit Level 9)

12.7.1 MASTER OF ARCHITECTURE BC480314, BC470314

MASTER OF ARCHITECTURE BC480314	**MASTER OF ARCHITECTURE BC470314**
LEARNING PROGRAMMES FOR MASTER OF ARCHITECTURE • The minimum term of this study is two years and a total of 180 credits are allocated for this degree. A student must do research on an approved topic in consultation with the Academic Departmental Head, for at least one year in preparation for a dissertation that shall be submitted as the only requirement for the degree.	**LEARNING PROGRAMMES FOR MASTER OF ARCHITECTURE (PROFESSIONAL) (For professional registration)** The Master of Architecture (Professional) is a one year full-time Master's Degree by coursework and involves lectures, projects, and an investigated design thesis with an advanced design project. The purpose of the qualification is to educate students who may register as "Student Architect" with the South African Council for the Architectural Profession in terms of the provisions of the Architectural Profession Act 44 of 2000. The assessments and examinations for the degree MArch(Professional) are recognised by the minister concerned in terms of the provisions of the Architectural Profession Act (Act 44 of 2000). Training experience after completion of the degree MArch(Professional) will be controlled by the conditions of the South African Council for the Architectural Profession. The registrar of this Council will provide information in this regard.
YEAR 1	**YEAR 1**
ARCH8900	DDIS7900 CONS7908 ATRE7904 BPKR7914 PARC7904

12.7.2 MASTER OF AGRICULTURE 5725, BC580152, BC580172, BC580190

LEARNING PROGRAMMES FOR MASTER OF AGRICULTURE

The aims of this degree study are:

(a) to present specialised postgraduate agricultural management training;

(b) to guide the student in such a way that he/she will be able to successfully integrate, communicate and apply the principles, concepts and knowledge of agricultural and management science; and

(c) to enhance applicable research skills in order to enable the student to qualify as a specialist in his/her field.

A student who registers for the MAgric degree and presents a dissertation (180 credits), must use one of the following codes:

RESEARCH			
BC580152	BC580111	BC580172	BC580190
AGRICULTURAL MANAGEMENT	**AGRICULTURAL ECON**	**IRRIGATION MANAGEMENT**	**WILDLIFE MANAGEMENT**
AGMA8900	AGEM8900	IRRI8900	WDMT8900

12.7.3 MASTER OF DISASTER MANAGEMENT BC470325

LEARNING PROGRAMMES FOR MASTER OF DISASTER MANAGEMENT

The main aim of the programme is to provide disaster management practitioners, or those who may have future disaster management responsibilities, training in a holistic approach towards disaster management to enable them to manage all kinds of disasters by implementing proactive disaster management strategies in terms of relevant legislation, policies and directives, and effectively co-ordinate relief and recovery programs.

The degree can be offered over a minimum period of one year (full time). Students will be allowed to take the degree over a two-year period (part time) by registering for fewer subjects per year. Prospective part-time candidates need to clarify their part-time studies with the Director of DiMTEC. Students need to obtain 180 credits.

Compulsory	Credits	Electives (choose at least 60 credits)		
		Code	**Subject**	**Credits**
DIMR7900 – Disaster Management Mini dissertation	120	DIMD7910	Ecosystem-Based Disaster Risk Reduction and Climate Change	60
		DIME7910	Ethnic and Cultural Conduct	30
		DIMG7900	Geographical Information Systems and Remote Sensing in Disaster Management	30
		DIMH7910	Disaster Mental Health	30
		DIMI7910	Disaster Risk and Impact Assessment	60
		DIMM7910	Management of Media Relations	30
		DIMP7900	Political Strategic Planning	30
		DIMW7910	Water related disasters	60

12.7.4 MASTER OF SUSTAINABLE AGRICULTURE BC570347

MASTER OF SUSTAINABLE AGRICULTURE (MSA)

The aim of this multi- and interdisciplinary postgraduate degree in Sustainable Agriculture is to provide skills, knowledge and training in the development, maintenance and management of sustainable agricultural production practices. Such practices involves the sustainable utilization of natural, economical and human resources for the production of sufficient and safe food and fibre products in all climatic conditions of Southern Africa, but particularly in the high-risk semi-arid regions. Applicable research will stimulate analytical and critical thought.

Modules are presented with limited contact by means of residential sessions and submission of assignments. Modules will be offered as semester modules whilst the research component will be a year module. Modules have 24 credits each and the research component 72 credits.

This programme consists of three compulsory modules, three optional modules and an extended research project consisting of a module on research methodology, a complete research project proposal and a final research report in the form of a mini-dissertation, script or article publishable in a peer reviewed journal.

Assessment (written or oral) is done by means of the submitted assignments of each module as well as a formal examination per module. The mini-dissertation, script or article is conducted and examined under the supervision of a supervisor or supervision committee. External assessment is done by an separate appointed panel of experts
The program is presented part time over a minimum period of two years, during which 240 credits must be earned.

	Elective modules: Three modules (24 credits each) from any focus area			
2017 CODE	BC470447			
Focus Area	**Semester 1**	**Semester 2**	**Semester 3**	**Semester 4**
Compulsory	SASA7900		SARM7906 **ONE OF:** SASC7900 SAMD7900 SAPA7900	
SOCIAL	SAEX7916			
ECOLOGICAL	SAUR7916			
ECONOMICAL		SAFM7926		
SOCIAL		**ONE OF:** SARD7926 SACT7926 SAPM7926		
ECOLOGICAL			**ONE OF:** SATN7916 SACP7916 SALP7916	
ECONOMICAL				**ONE OF:** SAVA7926 SAAM7926 SASM7926

12.7.5 MASTER OF LAND AND PROPERTY DEVELOPMENT MANAGEMENT BC470374

LEARNING PROGRAMMES **Learning programmes:** Each student **selects the field of interest, between Project Management or Valuation** and include all the compulsory modules (row C1/C2) from the prescribed discipline for the study years. Students must select sufficient modules and credits as indicated at each field of study from the electives (E) to obtain at least 180 credits for the degree programme.					
YEAR	**FIRST**	**FIRST**		**SECOND**	**SECOND**
	PROJECT MANAGEMENT	**VALUATION**		**PROJECT MANAGEMENT**	**VALUATION**
2017 CODE	BC470374	BC470374		BC470374	BC470374
CREDITS	**84**			**96**	
COMPULSORY C1	DPRP7902 TRBP7904 LSFP7902 AGEC7902 PPYC7901 BOEC7902 ENDC7902 ANDC7902 CCPC7901 CINC7901 INDR7902	WILD7902 URRP7902 SOIL7904 AGEN7902 PPYC7901 BOEC7902 ENDC7902 ANDC7902 CCPC7901 CINC7901 INDR7902	C2	IPMP7904 ENDR7900 CINC7901	ENWV7904 ENDR7900 CINC7901
ELECTIVE				**SELECT ANY 16 CREDITS** BEH704 BGR704	**SELECT ANY 16 CREDITS** BEH704 BGR704

12.7.6 MASTER OF HUMAN SETTLEMENTS BC480271

These learning programmes aim to:

(a) Provide the student with the opportunity to present evidence of advanced study and research characterised by intellectual independence and advanced knowledge of a specialisation area in the subject, as well as accurate assessment of his/her own results and as well as that of others by production of a thesis, which places his/her research in broader context and which is capable of withstanding international intellectual scrutiny.

(b) Develop the student, who will be able to demonstrate knowledge and understanding of supervised planning and execution of a research project in the discipline. This project includes hypothesis formulation, collecting appropriate experimental materials, optimising techniques and procedures, data acquisition, analysis and interpretation of results, and writing of a dissertation according to a structured format and related literature.

A student must do research on an approved topic in consultation with the Academic Departmental Head for at least two years, in preparation of a full dissertation.

YEAR 1+2	URHS8900

12.7.7 MASTER OF SCIENCE

These learning programmes aims at:

(a) Providing the student with the opportunity to present evidence of advanced study and research characterised by intellectual independence and advanced knowledge of a specialisation area in the subject, as well as accurate assessment of his/her own results and that of others by production of a thesis which places his/her research in broader context and which is capable of withstanding international intellectual scrutiny.

(b) Developing the student in order to demonstrate knowledge and understanding of supervised planning and execution of a research project in the discipline. This project includes hypothesis formulation, collecting appropriate experimental materials, optimising techniques and procedures, data acquisition, analysis and interpretation of results, and writing of a dissertation according to a structured format and related literature.

- The minimum term of this study is 2 years and a total of 180 credits is allocated for this degree. The student may do a research Master's programme with a full dissertation or a structured Master's programme depending on the discipline for which they want to register.
- If the full dissertation option is followed the student must do research on an approved topic for at least two semesters, in consultation with the Academic Departmental Head, in preparation for a dissertation that shall be submitted as the only requirement for the degree. Students may be required to present at least one seminar/research report in each year in accordance with departmental rules.
- If the structured Master's Degree is all prescribed modules, a compulsory research essay must be completed. The topic for the research must be determined in consultation with the Academic Departmental Head. Students may be required to present at least one seminar/research report.

STRUCTURED MASTER'S DEGREES						
	ASTROPHYSICS	**COMPUTER SCIENCE AND INFORMATICS**		**MATHEMATICS OR APPLIED MATHEMATICS**		
2017 CODE	**BC470117**	**BC470122**		**BC470138 or BC470116**		
COMPULSORY	PHYA7970/PHYA7980	CSIS7910/CSIS7920		MATM7930/MATM7940		
ELECTIVES	Students in the National Astrophysics and Space Science Programme (NASSP) must do an Extended research essay (PHYA7900) (100 credits) on an approved subject, in consultation with the Academic Departmental Head, after having already completed a theoretical course component (PHYA7970/ PHYA7980 – Astrophysics and Space Science) (80 credits) presented by the University of Cape Town (UCT) consisting of a total of 5 UCT weight points from the NASSP Master's Degree (www.star.ac.za). An oral examination may be required which will be arranged with the student after the extended research essay has been submitted.	**At least 60 Credits of**		**At least 16 credit modules**		
		CSIS7915/CSIS7925		MATA7914/MATA7924	MATK7914/MATK7924	MATU7914/MATU7924
		CSIS7935/CSIS7945		MATB7914/MATB7924	MATL7914/MATL7924	MATV7914/MATV7924
		CSIS7955/CSIS7965		MATC7914/MATC7924	MATM7914/MATM7924	MATW7914/MATW7924
		CSIS7975/CSIS7985		MATD7914/MATD7924	MATN7914/MATN7924	MATX7914/MATX7924
				MATE7914/MATE7924	MATO7914/MATO7924	MATY7914/MATY7924
				MATF7914/MATF7924	MATP7914/MATP7924	MATZ7914/MATZ7924
				MATG7914/MATG7924	MATQ7914/MATQ7924	MATZ7934/MATZ7944
				MATH7914/MATH7924	MATR7914/MATR7924	MATZ7954/MATZ7964
				MATI7914/MATI7924	MATS7914/MATS7924	One approved module from another discipline
				MATJ7914/MATJ7924	MATT7914/MATT7924	

	MATHEMATICAL STATISTICS RISK ANALYSIS	MATHEMATICAL STATISTICS	APPLIED STATISTICS	ACTUARIAL SCIENCES	ACTUARIAL SCIENCES
PROGRAMME CODE	**BC470187**	**BC470137**	**BC470146**	**BC470110** **If ACSG6800 is NOT completed**	**BC470110** **If ACSG6800 is completed**
COMPULSORY	STSR7900 STSE7900 STSE7910 STSS7910 STSF7910 STSF7920 STSF7940 (If STSF6815, STSF6825, STSE6825 was not part of the honours degree else any other NQF Exit Level 9 Mathematical Statistics Module	STSR7900 STSE7900 STSB7910 STSE7910 STSP7910 STSM7920	STSR7900 STSE7900 STSS7920	ACSR7900 ACSE7900 **ONE OF:** ACSG7910/7920 ACSH7910/7920 ACSI7910/7920 AGSL7910/7920	ACSR7900 ACSG7900 **ONE OF:** ACSG7910/7920 ACSH7910/ACSH7920 ACSI7910/ACSI7920 ACSL7910/ACSL7920
ELECTIVES	**Enough to obtain 180 NQF 9 credits**				
	STSB7910 STSP7910 STSM7920 STSR7920 STSS7920	STSF7940 STSR7920 STSS7920 STSP7920	STSB7910 STSE7910 STSP7910 STSM7920 STSR7920 STSS7910 STSF7910	ACSG7910/7920 ACSH7910/7920 ACSI7910/7920 AGSL7910/7920 STSB7910 STSE7910 STSP7910 STSS7920 STSR7920 STSM7920	ACSG7910/7920 ACSH7910/7920 ACSI7910/7920 AGSL7910/7920 STSB7910 STSE7910 STSP7910 STSS7920 STSR7920 STSM7920
	A written examination paper on four themes from the following and a compulsory short dissertation on an approved topic, themes should be chosen such that the module content does not overlap with a successfully completed honours-level module, e.g. STSB7910 may not be chosen if STSB6810 was successfully completed. Themes are selected in consultation with the Academic Departmental Head	A written examination paper on four themes from the following and a compulsory short dissertation on an approved topic, themes should be chosen such that the module content does not overlap with a successfully completed honours-level module, e.g. STSB7910 may not be chosen if STSB6810 was successfully completed. Themes are selected in consultation with the Academic Departmental Head.			

	MASTER OF SCIENCE IN MINERAL RESOURCE MANAGEMENT BC470078

Effective mining and mineral beneficiation is dependent on functional integrated management practices that include aspects such as geology, mining, mineral processing, financial management and mining-related legislation, among others (including all MRM practices).

- Mining has traditionally consisted of various disciplines, which have been managed, in a fragmented fashion. The results of fragmented management led to task duplication and noncoordination of activities that span the whole spectrum of mining functions. These actions invariably resulted in the development of a high cost structure.
- The main objective of the Magister in Mineral Resource Management is to effectively integrate the relevant fields of expertise so as to manage mining activities in the most cost effective manner possible.
- The programme will consist of four separate parts taken over a period of at least two years. In phase one, students will be exposed to basic Geology, Mining, Metallurgy and Business Principles as an introduction before being exposed to more detail in the applied modules. Phase two and three modules will contain more detail an will also address other deficiencies of the students.
- Upon the successful completion of the compulsory modules in Phase 1 and GLGD7913/7923 from Phase 2, four modules from Phase 2 and two modules from Phase 3 a total of 12 modules) and GLGD7910(mini dissertation) from Phase 4, the student will obtain a MSc majoring in Mineral Resource Management.

Some of the modules have compulsory contact time for lectures, case studies, practicals, tasks and tutorials, while others will be interactive and internet-based. The fourth phase comprises the completion of an extended research essay. Upon the successful completion of the compulsory modules in phase one, six modules from phase two, four modules from phase three and phase four, the student will obtain a Magister qualification.

PHASE1	**PHASE2**	**PHASE3**	**PHASE4**
GLGA7913/GLGA7923 GLGA7933/GLGA7943 GLGA7953/GLGA7963 GLGA7973/GLGA7983 GLGB7913/GLGB7923	GLGC7913/GLGC7923 GLGC7933/GLGC7943 GLGC7953/GLGC7963 GLGC7973/GLGC7983 GLGD7913/GLGD7923 GLGD7933/GLGD7943	GLGE7913/GLGE7923 GLGE7933/GLGE7943 GLGE7953/GLGE7963 GLGE7973/GLGE7983	GLGD7910

12.7.8 MASTER OF SCIENCE IN NANOSCIENCE

	MASTER OF SCIENCE IN NANOSCIENCE BC470179		
PROGRAMME CODE	BC470179		
COMPULSORY	Study code 4719: This qualification forms part of the National Nanoscience Postgraduate Teaching Platform (NNPTP) and is offered in collaboration with the University of the Western Cape, the Nelson Mandela Metropolitan University and the University of Johannesburg. Students are subjected to a selection process. The programme consists of a theoretical coursework component (80 Credits) and a mini-dissertation (100 Credits).	**a) Theoretical Coursework** The coursework component is presented at the University of the Western Cape (UWC). NSCC7911 and NSMN7911 are compulsory. Students register for a major field of specialization (NSFC7911, NSFP7911 or NSTC7914) and the applicable Experimental Techniques module. To complete the theoretical coursework component students have to enrol for the two foundation courses that are not part of the major field of specialization. For example: Students opting for Advanced Nanophysics (NSAP7900) accordingly select Foundations of Nano-biomedical Sciences for non-biologists (NSTC7914) and Foundations of Nanochemistry for Non-chemists (NSCC7911). The coursework component incorporates the following modules:	NSCC7911 – Central Concepts in Nanoscience NSMN7911 – Management for Nanoscientists NSFB7911 – Foundations of Nano-biomedical sciences for Non-biologists NSFC7911 – Foundations of Nanochemistry for Non-chemists NSFP7911 – Foundations of Nanophysics for Non-physicists NSTC7914 – Experimental Techniques in Nanochemistry NSTP7914 – Experimental Techniques in Nanophysics NSAP7900 – Advanced Nanophysics NSRP7900 – Nanoscience Research Project **(b) Research Project** **Currently not available at the University of the Free State.* On successful completion of the coursework component, students must do an approved mini-dissertation (NSRP7900) (100 credits) in Nanoscience (in consultation with the Academic Departmental Head) at the University of the Free State.

RESEARCH MASTER'S DEGREES

Disciplines	PLAN CODE	MODULE CODE	Disciplines	PLAN CODE	MODULE CODE	Disciplines	PLAN CODE	MODULE CODE
Actuarial Sciences	BC480010	ACSG8900	Food Science	BC480029	FSCI8900	Microbiology	BC480239	MCBT8900
Agricultural Economics	BC480011	AGEC8900	Forensic Sciences	BC480030	FORS8900	Microbial Biotechnology	BC480077	MBBT8900
Applied Mathematics	BC480016	MATA8900	Forensic Chemistry	BC480065	FORC8900	Mineral Resource Management	BC480078	MRTM8900
Agrometeorology	BC480012	CLIM8900	Forensic Entomology	BC480066	FORE8900	Plant Health Ecology	BC480082	PHEC8900
Agrometeorology Interdisciplinary	BC480012	CLMI8900	Genetics Interdisciplinary	BC480030	GENI8900	Plant Breeding	BC480041	PLTB8900
Astrophysics	BC480017	PHYA8900	Forensic Genetics	BC480078	FORG8900	Plant Breeding Interdisciplinary	BC480081	PLTI8900
Behavioural Genetics	BC480018	GENB8900	Forensic Interdisciplinary	BC480068	FORI8900	Plant Pathology	BC480042	PPLG8900
Biochemistry	BC480019	BOCM8900	Genetics	BC480031	GENE8900	Physics	BC480040	PHYS8900
Botany	BC480020	BTNY8900	Geochemistry	BC480032	GECE8900	Property Sciences	BC480085	PROP8900
Chemistry	BC480021	CHEM8900	Geography	BC480033	GEOH8900	Quantity Surveying	BC480043	DQFR8900
Computer Science and Informatics	BC480022	CSIS8900	Geographical Information Systems	BC480060	GISC8900	Soil Sciences	BC480044	SOIL8900
Consumer Science	BC480023	CNCS8900	Geology	BC480035	GLGY8900	Soil Sciences Interdisciplinary	BC480088	SOII8900
Construction Management	BC480024	PQMR8900	Geohydrology	BC480034	GEHR8900	Statistics	BC480046	STSA8900
Entomology	BC480027	ENTO8900	Grassland Sciences	BC480036	GRAS8900	Wildlife	BC480082	WILD8900
Environmental Geology	BC480028	GLGE8900	Limnology	BC480076	LIMG8900	Zoology	BC480089	ZLGY8900
Environmental Management	BC480060	ENMT8900	Mathematical Statistics	BC480037	STST8900			
Environmental Rehabilitation	BC470261	ENRH8900	Mathematics	BC480038	MATM8900			

12.7.9 MASTER OF SCIENCE IN AGRICULTURE BC580012, BC580013, BC580015, BC580036, BC580041, BC580042, BC580044, BC580046, BC580048

These learning programmes aim at:

- providing the student with the opportunity to present evidence of advanced study and research characterised by intellectual independence and advanced knowledge of a specialisation area in the subject, as well as accurate assessment of his/her own results and that of others by production of a thesis which places his/her research in broader context and which is capable of withstanding international intellectual scrutiny
- developing the student in order to demonstrate knowledge and understanding of supervised planning and execution of a research project in the discipline. This project includes hypothesis formulation, collecting appropriate experimental materials, optimising techniques and procedures, data acquisition, analysis and interpretation of results, and writing of a dissertation according to a structured format and related literature

The minimum term of this study is 1 year and a total of 180 credits are allocated for this degree. Rules: The student may do a research Master's programme with a full dissertation or a structured Master's programme depending on the discipline in which they want to register.

For the full dissertation option the student must do research on an approved topic for at least two semesters, in consultation with the Academic Departmental Head, in preparation for a dissertation that shall be submitted as the only requirement for the degree.

DATA2614 and DATA2624 must have been successfully completed or must be done concurrently.

RESEARCH								
Agrometeorology	BC580012	CLIM8900	Animal Nutrition	BC580015	ANIN8900	Plant Breeding Interdisciplinary	BC580081	PLTI8900
Agrometeorology Interdisciplinary	BC580053	CLMI8900	Animal Physiology	BC580015	ANIP8900	Plant Pathology	BC580042	PPLG8900
Agronomy	BC580013	CROP8900	Food Sciences	BC580029	FSCI8900	Plant Pathology Interdisciplinary	BC580083	PPLI8900
Agronomy Interdisciplinary	BC580054	CROI8900	Grassland Science	BC580036	GRAS8900	Soil Science	BC580044	SOIL8900
Animal Breeding	BC580015	ANIB8900	Plant Breeding	BC580041	PLTB8900	Soil Science Interdisciplinary	BC580088	SOII8900
Animal Science	BC580015	ANIG8900						

12.7.10 MASTER OF URBAN AND REGIONAL PLANNING BC480348

LEARNING PROGRAMMES FOR MASTERS DEGREE OF URBAN AND REGIONAL PLANNING (Research) (4764)

These learning programmes aim to:

(a) Provide the student with the opportunity to present evidence of advanced study and research characterised by intellectual independence and advanced knowledge of a specialisation area in the subject, as well as accurate assessment of his/her own results and as well as that of others by production of a thesis which places his/her research in broader context and which is capable of withstanding international intellectual scrutiny.
(b) Develop the student to be able to demonstrate knowledge and understanding of supervised planning and execution of a research project in the discipline. This project includes hypothesis formulation, collecting appropriate experimental materials, optimising techniques and procedures, data acquisition, analysis and interpretation of results, and writing of a dissertation according to a structured format and related literature.

A student must do research on an approved topic in consultation with the Academic Departmental Head for at least two years, in preparation of a full dissertation that shall be submitted as the only requirement for the degree.

This degree does not enable registration at the South African Council for Planners (SACPLAN).

Compulsory major modules
YEAR 1+2
URMD8900

12.7.11 MASTER OF URBAN AND REGIONAL PLANNING MURP BC470348

After completing the MURP Degree, the graduates will obtain a professional degree and will possess the following skills:

- The capacity to complete practical urban and regional planning projects including spatial frameworks, development plans and layouts
- The capacity to analyse issues from a theoretical and/or empirical perspective and to recommend suitable alternatives
- The capacity to communicate clearly and logically, write good planning and research reports, and debate these with stakeholders
- The ability to critically evaluate information and theories and to apply relevant concepts from different disciplines in innovative approaches to planning issues

The period of this study can be:

- Full Time 12 months,
- Part Time 24 months or
- Compact learning- block sessions 24 months presented as 4 - 5 workshop weeks per year

The Academic Departmental Head determines how the modules must be distributed over the years of study and in all degree programmes (Full time, Part time and Compact Learning). The modules may be spread over an additional year if a student does not have the necessary academic background. Compact learning students must attend compulsory workshop weeks at the department for the duration of the programme at times as determined by the Academic Departmental Head. During these workshop lectures, tutorials, practicals and discussions will take place. Assignments will be done and tests and examinations may also be written.

Students that register as full time or part time will also be expected to attend some classes, sessions, guest lectures, field trips, site visits, tours, tests and examinations during the block weeks.

A minimum of 204 credits must be presented for the MURP (Professional) Degree programme.

After sufficient practical training the graduate will be able to register as Urban and Regional Planner at the South African Council for Planners (SACPLAN).

Compulsory major modules		
Full time	**Compulsory semester modules:** URRM7914 / URRM7924 URPP7914 / URPP7924 URHS7913 / URHS7923 URDP7912 / URDP7922	**Compulsory year modules:** URRP7906 URUP7906 URGI7904 URMD7900
Compact Learning and Part Time	**Year 1**	
	Compulsory semester modules: URPP7914 / URPP7924 URHS7913 / URHS7923	**Compulsory year modules:** URRP7906 URUP7906
	Year 2	
	Compulsory semester modules: URRM7914 / URRM7924 URDP7912 / URDP7922	**Compulsory year modules:** URGI7904 URMD7900

12.8 DOCTORAL DEGREES (NQF EXIT LEVEL 10)

12.8.1 DOCTOR OF PHILOSOPHY ARCHITECTURE PhDArch BC490014

This learning programme aims to:
(a) Provide the opportunity for students who have already obtain a NQF Exit Level 10 qualification and have contributed extensive publications of exceptional quality in the specific subject field or discipline over a considerable period of time.

Architecture	BC490014	**ARCH9100**

12.8.2 DOCTOR OF PHILOSOPHY (PhD)

This learning programme aims to:

(a) Provide the student with the opportunity to prove her/his ability to plan and do research independently and to report the results.

(b) Enable the student to make an original contribution to the discipline.

The minimum term of this study is three years and a total of 360 credits is allocated for this degree. The student must do research for at least four semesters on an approved topic selected in consultation with the departmental chair in preparation to complete the thesis (360 credits). The degree study period therefore lasts three years. The student will present at least one seminar/research report in each year of study in accordance with departmental rules.
Students can register for a PhD with specialisation in one of the following areas:

Discipline	New Code	Mod Code	Discipline	New Code	Mod Code	Discipline	New Code	Mod Code
Actuarial Sciences	BC490010	ACSG9100	Environmental Geology	BC490028	GLGE9100	Microbiology	BC490039	MCBT9100
Agricultural Economics	BC490011	AGEC9100	Environmental Management	BC490060	ENMT9100	Microbial Biotechnology	BC490077	MBBT9100
Agricultural Management	BC490052	AGMA9100	Environmental Rehabilitation	BC490061	ENRH9100	Mineral Resource Management	BC490078	MRTM9100
Agrometeorology	BC490012	CLIM9100	Food Science	BC490029	FORC9100	Physics	BC490040	PHYS9100
Agrometeorology Interdisciplinary	BC490053	CLMI9100	Forensic Chemistry	BC490065	FORE9100	Plant Breeding	BC490041	PLTB9100
Agronomy	BC490013	CROP9100	Forensic Entomology	BC490066	FORG9100	Plant Breeding Interdisciplinary	BC490081	PLTI9100
Agronomy Interdisciplinary	BC490054	CROI9100	Forensic Genetics	BC490067	FORI9100	Plant Health Ecology	BC490082	PHEC9100
Animal Breeding	BC490015	ANIB9100	Forensic Interdisciplinary	BC490068	FORS9100	Plant Pathology	BC490042	PPLG9100
Animal Nutrition	BC490015	ANIN9100	Forensics Sciences	BC490030	GENE9100	Polymer Sciences	BC490084	PLYS9100
Animal Physiology	BC490015	ANIP9100	Genetics	BC490031	GENI9100	Property Sciences	BC490085	PROP9100
Animal Science	BC490015	ANIG9100	Genetics Interdisciplinary	BC490030	GECE9100	Quantity Surveying	BC490043	DQFR9000
Applied Mathematics	BC490016	MATA9100	Geochemistry	BC490032	GEOH9100	Sustainable Agriculture	BC490047	SADR9100
Astrophysics	BC490017	PHYA9100	Geography	BC490033	GEHR9100	Soil Science	BC490044	SOIL9100
Behavioural Genetics	BC490018	GENB9100	Geohydrology	BC490034	GISC9100	Soil Science Interdisciplinary	BC490088	SOII9100
Biochemistry	BC490019	BOCD9100	Geographical Information Systems	BC490069	GLGY9100	Statistics	BC490046	STSA9100
Botany	BC490020	BTNY9100	Geology	BC490035	GRAS9100	Urban and Regional Planning	BC490048	URPD9100
Chemistry	BC490021	CHEM9100	Grassland Science	BC490036	IRRI9100	Wildlife	BC490089	WILD9100
Computer Science and Informatics	BC490022	CSIS9100	Irrigation Management	BC490072	URHS9100	Wildlife Management	BC490090	WDMT9100
Consumer Sciences	BC490023	CNSC9100	Human Settlements	BC490071	LIMG9100	Zoology	BC490049	ZLGY9100
Construction Management	BC490024	PQMR9100	Limnology	BC490076	STSM9100			
Disaster Management	BC490025	DSMT9000	Mathematical statistics	BC490037	MATM9100			
Entomology	BC490027	ENTO9100	Mathematics	BC490038				

MODULE LIST WITH PREREQUISITES PER DEPARTMENT

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Agricultural Economics	Agribusiness management	AGBS6824	AGB605	Selection BScHon
Agricultural Economics	Economic Management of Resources	AGEC1514	LEK114	NSC Math level 3
Agricultural Economics	Agricultural finances	AGEC1624	LEK124	LEK114
Agricultural Economics	Business fucntions for Agribusiness	AGEC1634	LEK134	NSC Math level 3 or Mathslit 6 AP32 or Mathslit 5 with MTDA1408
Agricultural Economics	Farm planning and management	AGEC2614	LEK214	LEK114
Agricultural Economics	Introduction to agricultural marketing	AGEC2624	LEK224	LEK114
Agricultural Economics	Managerial economics	AGEC3714	LEK314	LEK114
Agricultural Economics	Seminar in agricultural economics	AGEC3721	LEK361	None
Agricultural Economics	Resource economics	AGEC3724	LEK324	LEK114
Agricultural Economics	Agribusiness management	AGEC3734	LEK334	LEK114
Agricultural Economics	Agricultural policy and development	AGEC3744	LEK344	LEK114
Agricultural Economics	Managerial economics	AGEC4814	LEK414	LEK114
Agricultural Economics	Seminar in Agricultural Economics	AGEC4821	LEK421	LEK114
Agricultural Economics	Resource economics	AGEC4824	LEK424	LEK114
Agricultural Economics	Agribusiness management	AGEC4834	LEK434	LEK114
Agricultural Economics	Agricultural policy and development	AGEC4844	LEK444	LEK114
Agricultural Economics	Research Project in Agricultural Economics	AGEC6808	LEK693	Selection BScHons
Agricultural Economics	Quantitative techniques	AGEC6814	LEK601	Selection BScHons
Agricultural Economics	Operational research	AGEC6824	LEK606	Selection BScHons
Agricultural Economics	Production and consumer economics	AGEC6834	LEK602	Selection BScHons
Agricultural Economics	International Agricultural Trade	AGEC6844	LEK607	Selection BScHons
Agricultural Economics	Agricultural policy	AGEC6854	LEK603	Selection BScHons
Agricultural Economics	Agricultural development	AGEC6864	LEK608	Selection BScHons
Agricultural Economics	Agricultural econometrics	AGEC6874	LEK604	Selection BScHons
Agricultural Economics	Agricultural marketing and price analysis	AGEC6884	LEK609	Selection BScHons
Agricultural Economics	Agricultural financing	AGEC6894	LEK605	Selection BScHons
Agricultural Economics	Environmental Economics	AGEC7902	LEK720	MProp
Agricultural Economics	Agricultural Economics Dissertation	AGEC8900	LEK 700	BSc in relevant discipline, Selection MSc, Permission from ADH
Agricultural Economics	Agricultural Economics Thesis	AGEC9100	LEK900	MSc Selection PhD or DSc, Permission from ADH

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Agricultural Economics	Advanced resource and environmental economics	AGEM6824	LEK610	Selection BScHons
Agricultural Economics	Project planning and analysis	AGEM6844	LEK611	Selection BScHons
Agricultural Economics	Land Valiation and Business Plans	AGEN7902	LEK793	MProp
Agricultural Economics	Business management and Entrepeneurship	AGMA3714	LBB314	None
Agricultural Economics	Inovation Management	AGMA3724	LBB324	None
Agricultural Economics	Farm Tax	AGMA3734	LBB334	None
Agricultural Economics	Strategic agricultural management	AGMA3744	LBB344	None
Agricultural Economics	Seminar in Integrated Agricultural management	AGMA3762	LBB362	None
Agricultural Economics	Research project	AGMA6808	LBB693	Selection Hons
Agricultural Economics	Financial management	AGMA6814	LBB602	Selection Hons
Agricultural Economics	Advanced agricultural management	AGMA6824	LBB601	Selection Hons
Agricultural Economics	Production management	AGMA6834	LBB603	Selection Hons
Agricultural Economics	Project management	AGMA6844	LBB604	Selection Hons
Agricultural Economics	Marketing management	AGMA6854	LBB605	Selection Hons
Agricultural Economics	Human Resource management	AGMA6864	LBB606	Selection Hons
Agricultural Economics	Financial management	AGMA6874	LBB609	Selection Hons
Agricultural Economics	Business management	AGMA6884	LBB607	Selection Hons
Agricultural Economics	Agricultural Management Dissertation	AGMA8900	LBB700	BSc in relevant discipline, Selection MSc, Permission from ADH
Agricultural Economics	Agricultural Management Thesis	AGMA9100	LBB900	Magric Selection PhD, Permission from ADH
Agricultural Engineering	Engineering principles in agricultural practises	AGEG2624	LNG224	LWL194 OR LWL124 OR WTV164 60% OR WTV134
Agricultural Engineering	Hydraulics	AGEG3714	LNG314	LNG224
Agricultural Engineering	Irrigation Systems and Irrigation Surveying	AGEG3724	LNG324	LNG314
Agricultural Engineering	Flood and mechanised irrigation	AGEG4814	LNG414	LNG324
Agricultural Engineering	Specialised micro, drip and underground irrigation systems	AGEG4824	LNG424	LNG414
Animal, Wildlife & Grassland Sciences	Biological principles in Agriculture	AGRI1514	LWL114	NCS Mathematics level 3 AP>30, OR Mathematic Literacy level 7 AP>32 OR Bagric-ext or UPPAgric first year succesfull completed
Animal, Wildlife & Grassland Sciences	Mathematical and Biometrical Principles in Agriculture	AGRI1624	LWL124	NCS Mathematics level 3 AP>30, OR Mathematic Literacy level 7 AP>32 OR Bagric-ext or UPPAgric first year succesfull completed

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Animal, Wildlife and Grassland Sciences	Microbiological principles in Agriculture	AGRI1664	LWL164	NCS Mathematics level 3 AP>30, OR Mathematic Literacy level 7 AP>32 OR Bagric-ext or UPPAgric first year succesfull completed
Animal, Wildlife and Grassland Sciences	Introduction to animal and plant breeding	ANIB2624	DTL224	None
Animal, Wildlife and Grassland Sciences	Theory of animal breeding	ANIB3714	DTL314	None
Animal, Wildlife and Grassland Sciences	New technologies in animal breeding	ANIB3724	DTL324	None
Animal, Wildlife and Grassland Sciences	Animal breeding: Mixed model theory	ANIB4814	DTL414	DTL314
Animal, Wildlife and Grassland Sciences	Animal breeding: Practical application	ANIB4824	DTL424	None
Animal, Wildlife and Grassland Sciences	Animal breeding: Mixed model theory	ANIB6814	DTL601	DTL314. Selection for BScHons
Animal, Wildlife and Grassland Sciences	Animal breeding: Practical application	ANIB6824	DTL602	Selection for BScHons
Animal, Wildlife and Grassland Sciences	Applied animal breeding	ANIB6826	DTL603	Selection for BScHons
Animal, Wildlife and Grassland Sciences	Animal Breeding Dissertation	ANIB8900	VKD700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Animal Breeding Thesis	ANIB9100	VKD900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Introduction to animal, wildlife and grassland sciences	ANIG1624	VWW124	None
Animal, Wildlife and Grassland Sciences	Introductory ruminant production	ANIG2614	VKD214	ANIG1624
Animal, Wildlife and Grassland Sciences	Introductory monogastric production	ANIG2624	VKD224	None
Animal, Wildlife and Grassland Sciences	Cattle production systems	ANIG3714	VKD314	None
Animal, Wildlife and Grassland Sciences	Sheep and goat production systems	ANIG3724	VKD324	None
Animal, Wildlife and Grassland Sciences	Poultry production systems	ANIG3734	VKD334	None
Animal, Wildlife and Grassland Sciences	Pig production systems	ANIG3744	VKD344	None
Animal, Wildlife and Grassland Sciences	Literature review Animal, Wildlife and Grassland Sciences	ANIG4803	DVL444	None
Animal, Wildlife and Grassland Sciences	Research project Animal, Wildlife and Grassland Sciences	ANIG4805	VKD693	None
Animal, Wildlife and Grassland Sciences	Fundamental and experimental animal nutrition	ANIN3734	DVL334	BCCH2614 min 65%
Animal, Wildlife and Grassland Sciences	Properties of feeds, balancing rations and fodder flow planning	ANIN3744	DVL344	None
Animal, Wildlife and Grassland Sciences	Applied nutrition of wild herbivores and carnivores	ANIN3764	VWW464	None
Animal, Wildlife and Grassland Sciences	Applied monogastric nutrition	ANIN4834	DVL434	min DVL334
Animal, Wildlife and Grassland Sciences	Applied monogastric nutrition	ANIN6834	DVL434	Selection BSCHon, DVL334
Animal, Wildlife and Grassland Sciences	Applied ruminant nutrition	ANIN4864	DVL464	DVL334
Animal, Wildlife and Grassland Sciences	Fundamental animal nutrition	ANIN6815	DVL601	None
Animal, Wildlife and Grassland Sciences	Experimental animal breeding	ANIN6825	DVL602	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Animal, Wildlife and Grassland Sciences	Applied ruminant nutrition	ANIN6864	DVL603	min DVL334
Animal, Wildlife and Grassland Sciences	Animal Nutrition Dissertation	ANIN8900	VKD700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Animal Nutrition Thesis	ANIN9100	VKD900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Animal anatomy and physiology of farm animals	ANIP3714	DAF314	None
Animal, Wildlife and Grassland Sciences	Animal Health	ANIP3724	DAF324	None
Animal, Wildlife and Grassland Sciences	Applied reproduction physiology in farm animals	ANIP4814	DAF414	None
Animal, Wildlife and Grassland Sciences	Growth and lactation physiology	ANIP4824	DAF424	None
Animal, Wildlife and Grassland Sciences	Applied reproduction physiology in farm animals	ANIP6814	DAF603	None
Animal, Wildlife and Grassland Sciences	General Animal Physiology	ANIP6816	DAF601	None
Animal, Wildlife and Grassland Sciences	Growth and lactation physiology	ANIP6824	DAF602	None
Animal, Wildlife and Grassland Sciences	Animal Science Dissertaion	ANIG8900	VKD700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Animal Science Thesis	ANIG9100	VKD900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Agricultural Datametry	DATA2614	DMT214	None
Animal, Wildlife and Grassland Sciences	Agricultural Datametry	DATA2624	DMT224	None
Animal, Wildlife and Grassland Sciences	Statistical analyses	DATA3722	DMT322	None
Animal, Wildlife and Grassland Sciences	Grassland Ecology	GRAS2614	WDK214	None
Animal, Wildlife and Grassland Sciences	Applied veld management and veld evaluation	GRAS3714	WDK314	WDK214
Animal, Wildlife and Grassland Sciences	Intensive pasture production	GRAS3724	WDK324	None
Animal, Wildlife and Grassland Sciences	Production and utilisation ecology	GRAS4814	WDK414	WDK314
Animal, Wildlife and Grassland Sciences	Advanced veld management	GRAS4824	WDK424	WDK314
Animal, Wildlife and Grassland Sciences	Defoliation phenology and physiology	GRAS4834	WDK434	WDK314
Animal, Wildlife and Grassland Sciences	Advanced fodder plant evaluation	GRAS4844	WDK444	WDK314
Animal, Wildlife and Grassland Sciences	Intensive pasture production	GRAS6805	WDK603	Selection BScHons
Animal, Wildlife and Grassland Sciences	Production and utilisation ecology	GRAS6814	WDK414	WDK314
Animal, Wildlife and Grassland Sciences	Advanced veld management	GRAS6824	WDK424	WDK314
Animal, Wildlife and Grassland Sciences	Defoliation phenology and physiology	GRAS6834	WDK434	WDK314
Animal, Wildlife and Grassland Sciences	Advanced fodder plant evaluation	GRAS6844	WDK444	WDK314
Animal, Wildlife and Grassland Sciences	Grassland Science Dissertation	GRAS8900	WDK700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Grassland Science Thesis	GRAS9100	WDK900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Game and environment interaction in the game farming industry	WDMT2624		ANIG1624

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Animal, Wildlife and Grassland Sciences	Applied game farm management	WDMT3724		ANIG1624
Animal, Wildlife and Grassland Sciences	Habitat preferences and diet selection of game	WILD6806	NLE601	Selection BScHon
Animal, Wildlife and Grassland Sciences	Habitat preferences and diet selection of game	WILD4806	NLE601	
Animal, Wildlife and Grassland Sciences	Research essay	WILD6808	NLE692	Selection BScHon
Animal, Wildlife and Grassland Sciences	Habitat evaluation and monitoring	WILD6816	NLE602	Selection BScHon
Animal, Wildlife and Grassland Sciences	Habitat evaluation and monitoring	WILD4816	NLE602	
Animal, Wildlife and Grassland Sciences	Integrated planning and practical environmental management practices	WILD6828	NLE603	Selection BScHon
Animal, Wildlife and Grassland Sciences	Integrated planning and practical environmental management practices	WILD4826	NLE603	
Animal, Wildlife and Grassland Sciences	Wildlife Dissertation	WILD8900	NLE700	Selection MSc
Animal, Wildlife and Grassland Sciences	Wildlife Thesis	WILD9100	NLE900	Selection PhD
Animal, Wildlife and Grassland Sciences	Applied Wildlife management	WDMT6826	NLB603	Selection Hons
Animal, Wildlife and Grassland Sciences	Applied Wildlife management	WDMT6846	NLB603	Selection Hons
Animal, Wildlife and Grassland Sciences	Wildlife Management Thesis	WDMT9100	NLB900	MSc Selection PhD, Permission from ADH
Animal, Wildlife and Grassland Sciences	Wildlife Thesis	WDMT9100	NLB900	MSc Selection PhD, Permission from ADH
Animal, Wildlife and Grassland Sciences	Wildlife Management Research Project	WDMT6808	NLB692	Selection Hons
Animal, Wildlife and Grassland Sciences	Veld and Game ecology	WDMT6816	NLB601	Selection Hons
Animal, Wildlife and Grassland Sciences	Applied habitat evaluation and wildlife feeding	WDMT6836	NLB602	Selection Hons
Animal, Wildlife and Grassland Sciences	Wildlife Management Dissertation	WDMT8900	NLB700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Wildlife Management Thesis	WDMT9100		Selection PhD
Architecture	Architecture Dissertation	ARCH8900	ARG700	BSc in relevant discipline, Selection MSc, Permission from ADH
Architecture	Architecture Thesis	ARCH9100	ARG900	MArch Selection PhD or DSc, Permission from ADH
Architecture	Architectural Treatise	ATRE7904	TAR714	Selection MArch(Prof)
Architecture	Computer Draughting	CDRA2604	GRT204	CONS1506 , DESN1500, PTEC1504, TRIG1512
Architecture	Construction	CONS1500	BOW106	Selection BArchStud
Architecture	Construction	CONS2606	BOW206	CONS1506 , DESN1500, HARC1604
Architecture	Construction	CONS3706	BOW306	CONS2606, DESN2600, HARC2604, TARC2604
Architecture	Construction	CONS6808	BOW608	Selection BArchStud(Hons)
Architecture	Construction	CONS7908	BOW708	Selection MArch(Prof)
Architecture	Construction for Quantity Surveyors	COQS2604	BOW204	None
Architecture	Construction for Quantity Surveyors	COQS3704	BOW304	COQS2604
Architecture	Design Dissertation	DDIS7900	SKR791	Selection MArch(Prof)
Architecture	Design	DESN1500	ONW100	Selection BArchStud
Architecture	Design	DESN2600	ONW200	CONS1506 , DESN1500, HARC1604

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Architecture	Design	DESN3700	ONW300	CONS2606 DESN2600 HARC2604 TARC2604
Architecture	Design	DESN6800	ONW600	Selection BArchStud(Hons)
Architecture	Design Methods in Architecture	DMET6812	OMA612	Selection BArchStud(Hons)
Architecture	History of Architecture	HARC1504	OGT106 /	Selection BArchStud
Architecture	History of Architecture	HARC1504	OGT106(4)	Selection for BArchStud
Architecture	History of Architecture	HARC2604	OGT204	CONS1506 , DESN1500, HARC1604
Architecture	History of Architecture	HARC2604	OGT206(4)	CONS1506 , DESN1500, HARC1604
Architecture	History of Architecture	HARC3704	OGT304	CONS2606, DESN2600, HARC2604, TARC2604
Architecture	History of Urban Settlement	HURB6806	OGT606	Selection BArchStud(Hons)
Architecture	Professional Architect's Practice	PARC7904	PAK714 /	Selection MArch(Prof)
Architecture	Photography	PHOT1522	GRT122	Selection BArchStud
Architecture	Presentation Techniques	PTEC1504	GRT104	Selection BArchStud
Architecture	Research methods in Architecture	RMET6822	NMA622	Selection BArchStud(Hons)
Architecture	Theory of Architecture	TARC2604	TAR22(0)4	BOW106, OGT106, ONW100
Architecture	Research in Theory of Architecture	TARC2604	TAR224 /	CONS1506 , DESN1500, HARC1604
Architecture	Theory of Architecture	TARC3704	TAR304	CONS2606, DESN2600, HARC2604, TARC2604
Architecture	Theory of Architecture	RARC6808	TAR604	Selection BArchStud(Hons)
Architecture	Trigonometrical Drawing	TRIG1512	GRT112	Selection BArchStud
Centre for Environmental Management	Resources and Processes	*ENMT5810	MOB707	Selection for PGDip (Environmental Management)
Centre for Environmental Management	Corporate Environmental Management and Sustainability	*ENMT5820	MOB708	Selection for PGDip in Environmental Management
Centre for Environmental Management	Environmental Impact Assessment Tools	*ENMT5826	MOB708	Selection for PGDip in Environmental Management
Centre for Environmental Management	Extended Mini-Dissertation	*ENMT7900	MOB791	Selection for Master's in Environmental Management)
Centre for Environmental Management	Resources and Processes	*ENMT7910	MOB707	Selection for Master's in Environmental Management
Centre for Environmental Management	Corporate Environmental Management and Sustainability	*ENMT7920	MOB708	Selection for Master's in Environmental Management
Centre for Environmental Management	Biodiversity and Conservation Management	*ENMT7930	MOB743	Selection for Master's in Environmental Management)
Centre for Environmental Management	Environmental Management Dissertation	*ENMT8900	MEM700	BSc in relevant discipline, Selection MSc, Permission from ADH
Centre for Environmental Management	Environmental Management Thesis	*ENMT9100	MEM900	MSc Selection PhD or DSc, Permission from ADH
Centre for Environmental Management	Introduction To Integrated Water Resources, Resource Economics and Governance	*IWM5810	NA	Selection for PGDipip in Integrated Water Management
Centre for Environmental Management	Integrated Water Resources Science	*IWM5820	NA	Selection for PGDipip in Integrated Water Management
Centre for Environmental Management	Integrated Water Resources Management and Legislation	*IWMT5826	NA	Selection for PGDip in Integrated Water Management

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Centre for Environmental Management	Water, Pollution and Rehabilitation Management	*IWMT7910	MOB741	Selection for Master's in Environmental Management)
Centre for Environmental Management	Wetland Management	*IWMT7950	MOB745	Selection for Master's in Environmental Management)
** These modules will only be presented as from 2017*				
Centre for Environmental Management	Limnology Honours	LIMG6800	LIM600	Selection for BScHon
Centre for Environmental Management	Water Resources Management	LIMG8900	LIM700	BSc in relevant discipline, Selection MSc, Permission from ADH
Centre for Environmental Management	Limnology Thesis	LIMG9100	LIM900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Centre for Environmental Management	Integrated Water Resources Management Dissertation	WRMT8900	NA	BSc in relevant discipline, Selection MSc, Permission from ADH
Centre forSustainable Agriculture, Rural Development and Extention	Fundamentals of Agricultural Economics and Marketing	SAAM 1716	ADS 146	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Fundamentals of Agricultural Economics and Marketing	SAAM 1726	ADS 146	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	National and intrenational agricultural marketing	SAAM 7926	MVL 741	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Introduction to Plant Production Practices	SACP 1716	ADS 116	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Introduction to Plant Production Practices	SACP 1726	ADS 116	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Sustainable Plant Production Systems	SACP 7916	MVL 761	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Basic communication skill	SACT 1716	ADS 226	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Basic communication skill	SACT 1726	ADS 226	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Communication and Technology transfer for Sustainable Agriculture	SACT 7926	MVL 733	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Sustainable Agriculture Thesis	SADR9100	VHL900	MSc Selection PhD, Permission from ADH
Centre forSustainable Agriculture, Rural Development and Extention	Rural Agricultural extension: issues and concepts	SAEX 7916	MVL 730	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Farm management for sustainable agriculture	SAFM 7926	MVL 750	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Introduction to Livestock Production Practices	SALP 1716	ADS 136	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Introduction to Livestock Production Practices	SALP 1726	ADS 136	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Sustainable Livestock Production Systems	SALP 7916	MVL 770	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Dissertation	SAMD 7900	MVL792	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Publishable artcle(s)	SAPA 7900	MVL793	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Project management in agriculture and rural development	SAPM 7926	MVL724	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Fundamentals of Rural Development	SARD 1716	ADS 126	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Fundamentals of Rural Development	SARD 1726	ADS 126	Diploma or Adv Certificate
Centre forSustainable Agriculture, Rural Development and Extention	Rural Development sociology	SARD 7926	MVL 731	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Research Methodology and project proposal	SARM 7903	MVL 721	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Introduction to Sustainable Agriculture and Rural Development	SASA 7903	MVL 720	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Extended script	SASC 7900	MVL791	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Strategic management and planning in agriculture	SASM 7926	MVL 752	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Agricultural technology for developing countries	SATN 7916	MVL 732	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Sustainable utilization of natural resources and environment	SAUR 7916	MVL 723	Selection Masters(SA)
Centre forSustainable Agriculture, Rural Development and Extention	Agricultural product processing and marketing	SAVA 7926	MVL 740	Selection Masters(SA)
Chemistry	Introduction to general Chemistry	CHEM1512	CEM112	NCS
Chemistry	Inorganic and Analytical Chemistry (Mainstream)	CHEM1513	New	NCS

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Chemistry	Inorganic and Analytical Chemistry (Mainstream)	CHEM1513+ CHEM1551	CEM114	NCS
Chemistry	Physical and Organic Chemistry (Mainstream)	CHEM1623	New	CEM114
Chemistry	Physical and Organic Chemistry (Mainstream)	CHEM1624	CEM124	CEM114
Chemistry	Physical and Organic Chemistry	CHEM1643	CEM132	CEM114
Chemistry	Physical and Organic Chemistry	CHEM1644	CEM144	CEM114
Chemistry	Physical Chemistry	CHEM2613+ CHEM2611	CEM214	CEM114, CEM124 or 60% CEM144, WTW114/134
Chemistry	Organic Chemistry	CHEM2623+ CHEM2621	CEM224	CEM114, CEM124 or 60% CEM144, WTW114/134
Chemistry	Analytical Chemistry	CHEM2633+ CHEM2631	CEM232	CEM114, CEM124 or 60% CEM144, WTW114/134
Chemistry	Inorganic Chemistry	CHEM2643+ CHEM2641	CEM242	CEM214, CEM232
Chemistry	Analytical Chemistry	CHEM3713+ CHEM3711	CEM314	CEM214, CEM232, CEM242, WTW124/144
Chemistry	Inorganic Chemistry	CHEM3723+ CHEM3721	CEM324	CEM314
Chemistry	Physical Chemistry	CHEM3733+ CHEM3731	CEM334	CEM214, CEM232, WTW124/144
Chemistry	Organic Chemistry	CHEM3744	CEM344	CEM224
Chemistry	Inorganic Chemistry	CHEM6813+ CHEM6811	CEM614	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Inorganic Chemistry	CHEM6823+ CHEM6821	CEM624	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Physical Chemistry	CHEM6833+ CHEM6831	CEM634	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Physical Chemistry	CHEM6843+ CHEM6841	CEM644	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Organic Chemistry	CHEM6853+ CHEM6851	CEM654	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Organic Chemistry	CHEM6863+ CHEM6831	CEM664	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Analytical Chemistry	CHEM6873+ CHEM6871	CEM674	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Analytical Chemistry	CHEM6883+ CHEM6881	CEM684	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Chemistry Dissertation	CHEM8900	CEM700	BSc in relevant discipline, Selection MSc, Permission from ADH
Chemistry	Chemistry Thesis	CHEM9100	CEM900	MSc Selection PhD or DSc, Permission from ADH
Computer Science and Informatics	Introduction to Information Systems	BCIS1513	New	With CSIL1511
Computer Science and Informatics	Computer Assisted Software Development	BCIS1623	New	CSIS1614
Computer Science and Informatics	Systems Analysis and Design	BCIS2614	New	BCIS1513
Computer Science and Informatics	Systems Infrastructure and Integration	BCIS2624	New	None
Computer Science and Informatics	Information Systems in Organisations	BCIS3714	New	None
Computer Science and Informatics	Artificial Intelligence	CSIC6813	RIS608	MATM1614 and MATM1624
Computer Science and Informatics	Artificial Intelligence	CSIC6823	RIS608	MATM1614 and MATM1624
Computer Science and Informatics	Robotics	CSIC6833	RIS623	None
Computer Science and Informatics	Robotics	CSIC6843	RIS623	None
Computer Science and Informatics	Capita Selecta	CSIC6853	RIS630	None
Computer Science and Informatics	Capita Selecta	CSIC6863	RIS630	None
Computer Science and Informatics	Business Intelligence	CSID6813	RIS610	CSID6853 (30%) or CSID6863 (30%)
Computer Science and Informatics	Business Intelligence	CSID6823	RIS610	CSID6853 (30%) or CSID6863 (30%)
Computer Science and Informatics	Advanced Databases	CSID6833	RIS622	CSIS2634
Computer Science and Informatics	Advanced Databases	CSID6843	RIS622	CSIS2634
Computer Science and Informatics	Data Warehousing	CSID6853	RIS625	CSIS3714
Computer Science and Informatics	Data Warehousing	CSID6863	RIS625	CSIS3714
Computer Science and Informatics	Introduction to Object-Oriented Programming for Engineers	CSIE1606	RIN104, CISE1606	With MATM1614
Computer Science and Informatics	Data Structures and Algorithms for Engineers	CSIE2613	CISE2613	CSIE1606
Computer Science and Informatics	Boole Algebra	CSIE3614	CISE3614	Mathematics on level 5 (60%)
Computer Science and Informatics	Microprocessors	CSIE3724	CISE3724	CSIE3614
Computer Science and Informatics	Knowledge-based Systems	CSIE6813	RIS609	None
Computer Science and Informatics	Management Information Systems	CSIE6833	RIS612	None
Computer Science and Informatics	IT Project Management	CSIE6853	RIS613	None
Computer Science and Informatics	Decision Support Systems	CSIE6873	RIS614	None
Computer Science and Informatics	Information Security	CSII6813	RIS604	CSIS3744
Computer Science and Informatics	Human-Computer Interaction	CSII6833	RIS615	None
Computer Science and Informatics	Computer Ethics	CSII6853	RIS618	None
Computer Science and Informatics	Computer Literacy: Part 1	CSIL1511	BRS111	None
Computer Science and Informatics	Computer Literacy: Part 2	CSIL1521	BRS121	CSIL1511
Computer Science and Informatics	Theory of Algorithms	CSIM6813	RIS606	MATM1614 and MATM1624
Computer Science and Informatics	Automata Theory and Applications	CSIM6833	RIS624	None
Computer Science and Informatics	Network Management	CSIN6813	RIS601	CSIS3744
Computer Science and Informatics	Advanced Computer Networks	CSIN6833	RIS616	CSIS3744
Computer Science and Informatics	Object Design	CSIP6813	RIS617	None
Computer Science and Informatics	Advanced Internet Programming	CSIP6833	RIS619	CSIS3734
Computer Science and Informatics	Advanced Programming 1	CSIP6853	RIS620	CSIS3724
Computer Science and Informatics	Advanced Programming 2	CSIP6873	RIS621	CSIP6853 or CSIP6863

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Computer Science and Informatics	Introduction to Programming: Part 1	CSIS1534 CSIS1564	RIS134	With CSIL1511, Mathematical Literacy on level 6 (70%) or Mathematics on level 4 (50%)
Computer Science and Informatics	Introduction to Computer Hardware	CSIS1553	RIS154, RIS153	None
Computer Science and Informatics	Programming and Problem Solving: Part 1	CSIS1614	RIS114	With CSIL1511, Mathematics on level 4 (50%)
Computer Science and Informatics	Programming and Problem Solving: Part 2	CSIS1624	RIS124	CSIS1614 or CSIS1644
Computer Science and Informatics	Introduction to Programming: Part 2	CSIS1644	RIS144	CSIS1534
Computer Science and Informatics	Visual Basic for Applications with the focus on Excel	CSIS1683	RIS182	CSIL1511
Computer Science and Informatics	Data Structures and Advanced Programming	CSIS2614	RIS214	CSIS1624
Computer Science and Informatics	Human-Computer Interaction	CSIS2624	RIS224	CSIS1614 or CSIS1644
Computer Science and Informatics	Introduction to Databases and Database Management Systems: Part 1	CSIS2634	RIS294	CSIS1624
Computer Science and Informatics	Information Technology Service Learning	CSIS2642	RIS242	CSIL1521
Computer Science and Informatics	Software Design	CSIS2664	RIS264	CSIS2614
Computer Science and Informatics	Introduction to Databases and Database Management Systems: Part 2	CSIS3714	RIS314	CSIS2634
Computer Science and Informatics	Software Engineering	CSIS3724	RIS324	CSIS3714
Computer Science and Informatics	Software Engineering	CSIS3724	RIS324	CSIS3714
Computer Science and Informatics	Internet Programming	CSIS3734	RIS334	CSIS1664 + CSIS2664
Computer Science and Informatics	Computer Networks	CSIS3744	RIS344	CSIS1553 or CSIE1606
Computer Science and Informatics	Project	CSIS6808	RIS693	None
Computer Science and Informatics	Introduction to Research	CSIS6813	RIS626	None
Computer Science and Informatics	Extended Research Essay	CSIS7910	RIS791	None
Computer Science and Informatics	Human-Computer Interaction	CSIS7915	RIS715	None
Computer Science and Informatics	Extended Research Essay	CSIS7920	RIS791	None
Computer Science and Informatics	Human-Computer Interaction	CSIS7925	RIS715	None
Computer Science and Informatics	Data Warehousing	CSIS7935	RIS725	None
Computer Science and Informatics	Data Warehousing	CSIS7945	RIS725	None
Computer Science and Informatics	Educational Technology	CSIS7955	RIS730	None
Computer Science and Informatics	Educational Technology	CSIS7965	RIS730	None
Computer Science and Informatics	Eye Tracking	CSIS7975	RIS731	None
Computer Science and Informatics	Eye Tracking	CSIS7985	RIS731	None
Computer Science and Informatics	Computer Science Dissertation	CSIS8900	RIS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Computer Science and Informatics	Computer Science Thesis	CSIS9100	RIS900	MSc Selection PhD or DSc, Permission from ADH

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Consumer Science	Consumer Science Dissertation	CNCS8900	CMS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Consumer Science	Consumer Science Thesis	CNCS9100	CMS900	MSc Selection PhD or DSc, Permission from ADH
Consumer Sciences	Interior design- fabric study	CNCS1634	ITR134	None
Consumer Sciences	Ergonomics and Apparatus studies	CNCS1622	VBW124	None
Consumer Sciences	Home planning	CNCS1624	ITR124	None
Consumer Sciences	Introductory housing	CNCS2624	BES324	None
Consumer Sciences	Recourse management	CNCS3722	VBW312	None
Consumer Sciences	Consumer study	CNCS2622	VBW324	None
Consumer Sciences	Community development	CNCS3732	VBW332	None
Consumer Sciences	The interior, clothing or food business	CNCS3744	VBW344	None
Consumer Sciences	Research project	CNCS4809	HDK692	None
Consumer Sciences	History of textiles, clothing, interior or food.	CNCS4814	HDK606	None
Consumer Sciences	History of textiles, clothing, interior or food.	CNCS4824	HDK606	None
Consumer Sciences	Food security	CNFD1532	VDS322	None
Consumer Sciences	Food preparation	CNFD2614	VDS214	None
Consumer Sciences	Food preparation II	CNFD2624	VDS224	None
Consumer Sciences	Food preservation	CNFD3713		None
Consumer Sciences	Product development	CNFD3732		None
Consumer Sciences	Meal planning	CNFD3744	VDS344	None
Consumer Sciences	Consumer analysis of foods	CNFD4808	VBW601	None
Consumer Sciences	Basic Construction	CNST1534	KLE134	None
Consumer Sciences	Children's clothing and outfit planning	CNST1644	KLE144	None
Consumer Sciences	Socio-cultural aspect of clothing	CNST2614	KLE214	None
Consumer Sciences	Textile fibres	CNST3712	TSK312	None
Consumer Sciences	Construction and finishing of textile fabrics.	CNST3722	TSK322	None
Consumer Sciences	Apparel Industry	CNST3734	KLE334	None
Consumer Sciences	Pattern design	CNST3744	KLE344	None
Consumer Sciences	Weaving, knitting and other construction methods. Embroidery.	CNST3754	TSK424	None
Consumer Sciences	Clothing industry and clothing for special needs	CNST4814	HDK602	None
Consumer Sciences	Clothing industry:quality control	CNST4824	HDK602	None
Consumer Sciences	Social aspects of clothing	CNST4834	HDK603	None
Consumer Sciences	Psychological aspects of clothing	CNST4844	HDK603	None
Consumer Sciences	Natural textile fobres en regenerated fibres.	CNST4854	HDK604	None
Consumer Sciences	Finishes for natural fibres	CNST4864	HDK604	None
Consumer Sciences	Nutrition		VDG408	None
DIMTEC	Research Methodology (15)	DIM601	DIM601	Relevant NQF Level 7 qualification. Selection
DIMTEC	Hazards and Disaster Management (15)	DIM602	DIM602	Relevant NQF Level 7 qualification. Selection
DIMTEC	Strategic Disaster Management (15)	DIM603	DIM603	Relevant NQF Level 7 qualification. Selection
DIMTEC	Disaster Management pprinciples and practices (15)	DIM604	DIM604	Relevant NQF Level 7 qualification. Selection

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
DIMTEC	Disaster Risk Management (15)	DIM605	DIM605	Relevant NQF Level 7 qualification. Selection
DIMTEC	Information Technology in Disaster Management (15)	DIM606	DIM606	Relevant NQF Level 7 qualification. Selection
DIMTEC	Public Health (15)	DIM607	DIM607	Relevant NQF Level 7 qualification. Selection
DIMTEC	Management of natural and human-made disasters (15)	DIM608	DIM608	Relevant NQF Level 7 qualification. Selection
DIMTEC	Disaster Mental Health	DIM701	DIM701	Relevant NQF Level 8 qualification. Selection
DIMTEC	Political Strategic Planning	DIM702	DIM702	Relevant NQF Level 8 qualification. Selection
DIMTEC	Strategic Disaster Management	DIM703	DIM703	Relevant NQF Level 8 qualification. Selection
DIMTEC	Ethical and Cultural conduct	DIM704	DIM704	Relevant NQF Level 8 qualification. Selection
DIMTEC	Disaster Management Mini dissertation	DIM791	DIM791	Relevant NQF Level 8 qualification. Selection
DIMTEC	Ethnic and Cultural Conduct	DIME7910	DIM704	Relevant NQF 8 qualification >60%
DIMTEC	Geographical Information Systems and Remote Sensing in Disaster Management	DIMG7900	DIM703	Relevant NQF 8 qualification >60%
DIMTEC	Disaster Mental Health	DIMH7910	DIM701	Relevant NQF 8 qualification >60%
DIMTEC	Disaster Risk and Impact Assessment	DIMI7910	DIM706	Relevant NQF 8 qualification >60%
DIMTEC	Political Strategic Planning	DIMP7900	DIM702	Relevant NQF 8 qualification >60%
DIMTEC	Management of Media Relations	DIMM7910	DIM705	Relevant NQF 8 qualification >60%
DIMTEC	Disaster Management Mini dissertation	DIMR7900	DIM791	Relevant NQF 8 qualification >60%
DIMTEC	Ecosystem-Based Disaster Risk Reduction	DIMD7910	DIM707	Relevant NQF 8 qualification >60%
DIMTEC	Water related disasters	DIMW7910	DIM708	Relevant NQF 8 qualification >60%
DIMTEC	Introduction to disaster management	DIMI5810		Relevant NQF7 qualification >60%
DIMTEC	Research Design and Methodology	DIMR5810	DIM601	Relevant NQF7 qualification >60%
DiMTEC	Legal and Institutional arrangements for Disaster Managers	DIML5810		Relevant NQF7 qualification >60%
DIMTEC	Theoretical Models for disaster risk reduction	DIMM5810		Relevant NQF7 qualification >60%
DIMTEC	Strategic Disaster Management	DIMS5820	DIM603	Relevant NQF7 qualification >60%
DiMTEC	Management of Natural and Human-made Disasters	DIMN5820	DIM608	Relevant NQF7 qualification >60%
DIMTEC	Information Technology in Disaster management	DIMT5820	DIM606	Relevant NQF7 qualification >60%
DIMTEC	Public Health in Disaster Management	DIMP5820	DIM607	Relevant NQF7 qualification >60%
Genetics	Introduction To Genetics	BLGY1623	BLG124	BLGY1513 OR BLGY1503
Genetics	Advanced Forensic Techniques	FORC6814	New	Selection for BScHons
Genetics	Advanced Forensic Techniques	FORC6824	New	Selection for BScHons
Genetics	Forensic Chemistry Dissertation	FORC8900	GEN720	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Forensic Chemistry Thesis	FORC9100	GDF920	MSc Selection PhD or DSc, Permission from ADH
Genetics	Forensic Entomology Dissertation	FORE8900	GEN727	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Forensic Entomology Thesis	FORE9100	GEN927	MSc Selection PhD or DSc, Permission from ADH
Genetics	Research Essay	FORG6808	GDF692	FORG6816
Genetics	Research: Literature Review	FORG6814	GDF693	Selection for BScHons
Genetics	Research Techniques	FORG6816	GDF686	Selection for BScHons
Genetics	Research: Literature Review	FORG6824	GDF693	Selection for BScHons
Genetics	Forensic Dna Typing and Quality Assurance	FORG6834	GDF614	Selection for BScHons
Genetics	Forensic Dna Typing and Quality Assurance	FORG6844	GDF614	Selection for BScHons
Genetics	Crime Scene Management and The Justice System	FORG6854	GDF624	Selection for BScHons
Genetics	Crime Scene Management and The Justice System	FORG6864	GDF624	Selection for BScHons
Genetics	Capita Selecta In Forensic Genetics	FORG6874	GDF674	Selection for BScHons
Genetics	Capita Selecta In Forensic Genetics	FORG6884	GDF674	Selection for BScHons
Genetics	Forensics Genetics Dissertation	FORG8900	GEN731	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Forensic Sciences Interdisciplinary Dissertation	FORI8900	GEN799	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Forensic Sciences Interdisciplinary Thesis	FORI9100	New	MSc Selection PhD or DSc, Permission from ADH
Genetics	Introduction To Forensic Sciences	FORS2616	GDF214	BLGY1513, BLGY1623, (CEM114 + CEM124 = 60%)
Genetics	Crime Scene Investigation	FORS2626	GDF224	BLGY1513, BLGY1623, (CEM114 + CEM124 = 60%)
Genetics	Evidence Types	FORS3714	GDF314	FORS2616, FORS2626
Genetics	Forensic Chemistry	FORS3724	GDF324	FORS2626, CEM232
Genetics	Forensic Entomology	FORS3734	GDF334	BLGY1663, FORS2616
Genetics	Forensic Genetics	FORS3744	GEN334	FORS2616, GENE2626
Genetics	Research Essay	FORS6808	New	FORS6886
Genetics	Research: Literature Review	FORS6814	New	Selection for BScHons
Genetics	Research Techniques	FORS6816	New	Selection for BScHons
Genetics	Research: Literature Review	FORS6824	New	Selection for BScHons
Genetics	Management and Evaluation: Forensic Sciences	FORS6834	New	Selection for BScHons
Genetics	Management and Evaluation: Forensic Sciences	FORS6844	New	Selection for BScHons
Genetics	Crime To Court	FORS6854	New	Selection for BScHons
Genetics	Crime To Court	FORS6864	New	Selection for BScHons
Genetics	Capita Selecta In Forensic Sciences	FORS6874	New	Selection for BScHons
Genetics	Capita Selecta In Forensic Sciences	FORS6884	New	Selection for BScHons
Genetics	Forensic Sciences Dissertation	FORS8900	GDF700	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Forensic Sciences Thesis	FORS9100	GDF900	MSc Selection PhD or DSc, Permission from ADH
Genetics	Advanced Behavioural Genetics	GENB6814	GGS634	Selection for BScHons
Genetics	Advanced Behavioural Genetics	GENB6824	GGS634	Selection for BScHons
Genetics	Advanced Cytotaxonomy	GENC6814	GEN614	Selection for BScHons
Genetics	Advanced Cytotaxonomy	GENC6824	GEN614	Selection for BScHons
Genetics	Human Genetics	GENE2616	GEN216	BLGY1513 + BLGY1626
Genetics	Molecular Genetics	GENE2626	GEN246	BLGY1513, BLGY1623

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Genetics	Genomics	GENE3714		GENE2616 + GENE2626
Genetics	Cytotaxonomy	GENE3724	GEN324	GENE2616 + GENE2626
Genetics	Behavioural Genetics	GENE3734	GEN354	GENE2616 + GENE2626
Genetics	Population and Conservation Genetics	GENE3744	GEN344	GENE2616 + GENE2626
Genetics	Research Essay	GENE6808	GEN692	Selection for BScHons
Genetics	Research: Literature Review	GENE6814	GEN693	Selection for BScHons
Genetics	Research Techniques	GENE6816	GEN686	Selection for BScHons
Genetics	Research: Literature Review	GENE6824	GEN693	Selection for BScHons
Genetics	Capita Selecta Genetics	GENE6834	GEN674	Selection for BScHons
Genetics	Capita Selecta Genetics	GENE6844	GEN674	Selection for BScHons
Genetics	Genetics Dissertation	GENG8900	GEN700	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Genetics Thesis	GENG9100	GEN900	MSc Selection PhD or DSc, Permission from ADH
Genetics	Advanced Human Genetics	GENH6814	GGS614	Selection for BScHons
Genetics	Advanced Human Genetics	GENH6824	GGS614	Selection for BScHons
Genetics	Human Genetics Dissertation	GENH8900	GGS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Human Genetics Thesis	GENH9100	GGS900	MSc Selection PhD or DSc, Permission from ADH
Genetics	Genetics Interdisciplinary Dissertation	GENI8900	GEN799	BSc in relevant discipline, Selection MSc, Permission from ADH
Genetics	Genetics Interdisciplinary Thesis	GENI9100	New	MSc Selection PhD or DSc, Permission from ADH
Genetics	Recombinant Dna Technology	GENM6814	GEN624	Selection for BScHons
Genetics	Recombinant Dna Technology	GENM6824	GEN624	Selection for BScHons
Genetics	Applied Conservation Genetics	GENP6814	GEN654	Selection for BScHons
Genetics	Applied Conservation Genetics	GENP6824	GEN654	Selection for BScHons
Genetics	Advanced Molecular Systematics	GENS6814	GEN644	Selection for BScHons
Genetics	Advanced Molecular Systematics	GENS6824	GEN644	Selection for BScHons
Geography	Environmental Policy and Practice	ENVG6826	GGF626	GEOP3724 (GEO324)
Geography	Integrated Environmental Management	ENVG6846	GGH666	GEOP3724 (GEO324)
Geography	Environmental Sciences Dissertation	ENVR8900	GEO700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geography	Environmental Sciences Thesis	ENVR9100	GEO900	MSc Selection PhD or DSc, Permission from ADH
Geography	Theoretical Foundations of Geography	GEOF6816	GEO616	None
Geography	Capita Selecta Geography	GEOG6806	GEO606	None
Geography	Introduction to Human Geography	GEOH1624	GEO124	GEOP1514 (GEO114)
Geography	Housing and Urban development	GEOH2614	GEO214	GEOH1624 (GEO124)
Geography	Applied urban development and spatial transformation	GEOH3714	GEO314	GEOH2614 (GEO214)
Geography	Rural Geography	GEOH3724	GEO344	GEOH2614 (GEO214)
Geography	Urban Geography	GEOH6816	GGH636	GEOH3714 (GEO314)
Geography	Rural Geography	GEOH6826	New	GEOH3724
Geography	Introduction to Physical Geography	GEOP1514	GEO114	Maths levelNSC level 4
Geography	Process Geomorpholgy	GEOP2614	GEO234	GEOP1514 (GEO114) or GLG114
Geography	Environment and climate studies	GEOP2624	GEO224	GEOP1514 (GEO114)

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Geography	Environmental Geomorphology	GEOP3714	GEO334	GEOP2614 (GEO234) or GLG224
Geography	Environmental management and analysis	GEOP3724	GEO324	GEOP2624 (GEO224)
Geography	Applied Geomorphology	GEOP6816	GGF636	GEOP3714 (GEO334)
Geography	Research in Geography	GEOR6808	GEO692	None
Geography	Geography Dissertation	GEOP8900	GEO700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geography	Geoinformatic Systems Dissertation	GEOR8900	GEO700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geography	Geography Thesis	GEOP9100	GEO900	MSc Selection PhD or DSc, Permission from ADH
Geography	Geoinformatics Systems Thesis	GEOR9100	GEO900	MSc Selection PhD or DSc, Permission from ADH
Geography	Introduction to Geographic Information Systems	GISC2624	GIS224	GEOP1514 (GEO114) and GEOH1624 (GEO124)
Geography	Professional practice, Ethics and legal aspects of Geographical Information Science	GISC3704	GIS646	GISC2624 (GIS224)
Geography	Geographical Information Science	GISC3724	GIS324	GISC2624 (GIS224)
Geography	Spatial analysis and modelling	GISC6816	GIS616	GISC3724 (GIS324)
Geography	Remote Sensing and Image interpretation	GISR6826	GGF656	GISC3724 (GIS324)
Geology	Geochemistry Dissertation	GECE8900	GCE700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geology	Geochemistry Thesis	GECE9100	GCE900	MSc Selection PhD or DSc, Permission from ADH
Geology	Overview of Geology Mining, Metalurgie and Business Processes	GLGA7913	GLG711	Selection for MRTM
Geology	Overview of Geology Mining, Metalurgie and Business Processes	GLGA7923	GLG711	Selection for MRTM
Geology	Mineral Resourse Throughput Management 1 (Methodology)	GLGA7933	GLG712	Selection for MRTM
Geology	Mineral Resourse Throughput Management 1 (Methodology)	GLGA7943	GLG712	Selection for MRTM
Geology	Applied Geology	GLGA7953	GLG713	Selection for MRTM
Geology	Applied Geology	GLGA7963	GLG713	Selection for MRTM
Geology	Applied Mining	GLGA7973	GLG714	Selection for MRTM
Geology	Applied Mining	GLGA7983	GLG714	Selection for MRTM
Geology	Applied Metallurgy	GLGB7913	GLG715	Selection for MRTM
Geology	Applied Metallurgy	GLGB7923	GLG715	Selection for MRTM
Geology	Mineral Resourse Throughput Management Implementation Practices	GLGC7913	GLG721	Selection for MRTM
Geology	Mineral Resourse Throughput Management Implementation Practices	GLGC7923	GLG721	Selection for MRTM
Geology	Mineral Resourse Throughput Management Information Practices	GLGC7933	GLG722	Selection for MRTM
Geology	Mineral Resourse Throughput Management Information Practices	GLGC7943	GLG722	Selection for MRTM
Geology	Mineral Resourse Throughput Management Organisational Change Practices	GLGC7953	GLG723	Selection for MRTM
Geology	Mineral Resourse Throughput Management Organisational Practices	GLGC7963	GLG723	Selection for MRTM

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Geology	Virtual mining simulation and Optimisation	GLGC7973	GLG724	Selection for MRTM
Geology	Virtual mining simulation and Optimisation	GLGC7983	GLG724	Selection for MRTM
Geology	Mineral Resourse Throughput Management 2 (advance	GLGD7913	GLG725	Selection for MRTM
Geology	Mineral Resourse Throughput Management 2 (advance	GLGD7923	GLG725	Selection for MRTM
Geology	Geological Modeling and applied Geostatistics	GLGD7933	GLG726	Selection for MRTM
Geology	Geological Modeling and applied Geostatistics	GLGD7943	GLG726	Selection for MRTM
Geology	Capita Selecta	GLGE7913	GLG731	Selection for MRTM
Geology	Capita Selecta	GLGE7923	GLG731	Selection for MRTM
Geology	Mining Throughput Accounting and Modelling	GLGE7933	GLG732	Selection for MRTM
Geology	Mining Throughput Accounting and Modelling	GLGE7943	GLG732	Selection for MRTM
Geology	Minerale hulpbron- en deurvloeibestuur Risk Practices	GLGE7953	GLG733	Selection for MRTM
Geology	Minerale hulpbron- en deurvloeibestuur Risk Practices	GLGE7963	GLG733	Selection for MRTM
Geology	Modern Mining Supply Chain Management	GLGE7973	GLG734	Selection for MRTM
Geology	Modern Mining Supply Chain Management	GLGE7983	GLG734	Selection for MRTM
Geology	Environmental Geology Dissertation	GLGE8900	GLG700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geology	Environmental Geology Thesis	GLGE9100	GLG900	MSc Selection PhD or DSc, Permission from ADH
Geology	Mineral Resourse Throughput Management Dissertation	GLGF7910	GLG791	Selection for MRTM
Geology	Introduction to Geology	GLGY1614	GLG114	NSC mathematics level 5 physical science level 5
Geology	General Geology	GLGY1624	GLG124	GLGY1614
Geology	Geology of STHern Africa: genesis and age relationships	GLGY2602	GLG202	55% average for GLGY1614 + GLGY1624
Geology	Petrographical mineralogy	GLGY2612	GLG212	55% average for GLGY1614 + GLGY1624
Geology	Advanced mineralogy	GLGY2614	GLG214	55% average for GLGY1614 + GLGY1624
Geology	Sedimentological applications	GLGY2622	GLG222	55% average for GLGY1614 + GLGY1624
Geology	Advanced Sedimentology	GLGY2624	GLG224	55% average for GLGY1614 + GLGY1624
Geology	Geological techniques: uses and applications	GLGY2632	GLG232	55% average for GLGY1614 + GLGY1624
Geology	Geology for Engineering Practical	GLGY2641		Selection: BSc majoring in Physics and Engineering subjects
Geology	Geological Environmental Management	GLGY2642	GLG242	55% average for GLGY1614 + GLGY1624
Geology	Geology for Engineering	GLGY2643		Selection: BSc majoring in Physics and Engineering subjects
Geology	Environmental Geology	GLGY2644	GLG244	55% average for GLGY1614 + GLGY1624 or GEOH1614 + GEOH1624
Geology	Geological structures and maps	GLGY2652	GLG252	55% average for GLGY1614 + GLGY1624
Geology	Igneous Petrology	GLGY3714	GLG314	GLGY2614 & GLGY2612

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Geology	Economic and exploration Geology	GLGY3724	GLG324	GLGY2624 & GLGY2622
Geology	Advanced structural Geology	GLGY3734	GLG334	GLGY2652, GLGY2624 & GLGY2622
Geology	Metamorphic petrology	GLGY3744	GLG344	GLGY2624 & GLGY3714
Geology	Introduction to Geochemistry	GLGY3754	GLG354	GLGY2614
Geology	Exploration Geochemistry	GLGY3764	GLG364	GLGY2614
Geology	Petrochemical applications	GLGY3774	GLG374	GLGY2614
Geology	Environmental Geochemistry	GLGY3784	GLG384	GLGY2614
Geology	Plate Tectonics	GLGY6816	GLG616	Selection for Honours
Geology	SEDIMENTOLOGY	GLGY6823	GLG623	Approval to register for BScHons in Geology programmes
Geology	ECONOMIC GEOLOGY	GLGY6826	GLG626	Approval to register for BScHons in Geology programmes
Geology	Mineralogy	GLGY6836	GLG636	Selection for Honours
Geology	METAMORPHIC GEOLOGY	GLGY6843	GLG643	Approval to register for BScHons in Geology programmes
Geology	ADVANCED GEOCHEMISTRY	GLGY6846	GLG646	Approval to register for BScHons in Geology programmes & GLGY3754, GLGY3774 & GLGY3784
Geology	IGNEOUS GEOLOGY	GLGY6853	GLG653	Approval to register for BScHons in Geology programmes
Geology	Structural Geology	GLGY6856	GLG656	Selection for Honours + GLGY3734
Geology	MINERAL EXPLORATION	GLGY6863	GLG663	Approval to register for BScHons in Geology programmes
Geology	ENVIRONMENTAL GEOCHEMISTRY	GLGY6873	GLG673	Approval to register for BScHons in Geology programmes
Geology	CAPITA SELECTA	GLGY6883	GLG683	Approval to register for BScHons in Geology programmes
Geology	RESEARCH ESSAY	GLGY6896	GLG696	Approval to register for BScHons in Geology programmes
Geology	Geology Dissertation	GLGY8900	GLG700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geology	Geology Thesis	GLGY9100	GLG900	MSc Selection PhD or DSc, Permission from ADH
Geology	Mineral Resourse Throughput Thesis	MRTH9100	GLG900	MSc Selection PhD or DSc, Permission from ADH
Geology	Mineral Resourse Throughput Management Dissertation	MRTM8900	MRM700	BSc in relevant discipline, Selection MSc, Permission from ADH
Geology	Mineral Resourse Throughput Management Thesis	MRTM9100	MRM900	MSc Selection PhD or DSc, Permission from ADH
Haematology and Cell Biology	HUMAN MOLECULAR BIOLOGY OF DIETETICS	HMBG2614	MBG214	BLGY1513
Haematology and Cell Biology	HUMAN MOLECULAR BIOLOGY OF NUTRITIONAL DISORDERS	HMBG3714	MBG314	60% GENE2616 + 60% GENE2626
Haematology and Cell Biology	HUAN MOLECULAR BIOLOGY OF CANCER	HMBG3724	MBG324	60% GENE2616 + 60% GENE2626
Haematology and Cell Biology	HUMAN MOLECULAR BIOLOGY OF CHROMOSOMES	HMBG3734	MBG334	60% GENE2616 + 60% GENE2626
Haematology and Cell Biology	HUMAN MOLECULAR BIOLOGY OF IMMUNOLOGY AND HAEMOSTASIS	HMBG3744	MBG344	60% GENE2616 + 60% GENE2626
Institute for Groundwater Studies	Geohydrology Dissertation	GEOH8900	GHR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Institute for Groundwater Studies	Geohydrology Thesis	GEOH9100	GHR900	MSc Selection PhD or DSc, Permission from ADH

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Institute for Groundwater Studies	Grondwater Hydrolics	GEOH6815	GHR611	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114=GLGY1614; GLG124=GLGY1624; CEM114 = CHEM1513+ CHEM1551; CEM124/144 = CHEM1644 WTW114=MATM1614; STK=not offered anymore; STK124=STSA1624
Institute for Groundwater Studies	Hydrochemistry and Pollution	GEOH6835	GHR612	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114 (Introduction to Geology) GLG124 (General Geology) CEM114 (Inorganic and Analytical Chemistry) CEM124/CEM124 (Physical and Organic Chemistry) and WTW114 (Calculus) WTW124 (Algebra and Differential Equations) or STK114 (Introduction to Statistics I) STK124 (Introduction to Statistics II)
Institute for Groundwater Studies	Mining Geohydrology and Hydrology	GEOH6845	GHR628	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114 (Introduction to Geology) GLG124 (General Geology) CEM114 (Inorganic and Analytical Chemistry) CEM124/CEM124 (Physical and Organic Chemistry) and WTW114 (Calculus) WTW124 (Algebra and Differential Equations) or STK114 (Introduction to Statistics I) STK124 (Introduction to Statistics II)
Institute for Groundwater Studies	Groundwater Modelling	GEOH6825	GHR621	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114 (Introduction to Geology) GLG124 (General Geology) CEM114 (Inorganic and Analytical Chemistry) CEM124/CEM124 (Physical and Organic Chemistry) and WTW114 (Calculus) WTW124 (Algebra and Differential Equations) or STK114 (Introduction to Statistics I) STK124 (Introduction to Statistics II)
Institute for Groundwater Studies	Groundwater Geophysics	GEOH6855	GHR613	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114 (Introduction to Geology) GLG124 (General Geology) CEM114 (Inorganic and Analytical Chemistry) CEM124/CEM124 (Physical and Organic Chemistry) and WTW114 (Calculus) WTW124 (Algebra and Differential Equations) or STK114 (Introduction to Statistics I) STK124 (Introduction to Statistics II)
Institute for Groundwater Studies	Groundwater Management	GEOH6865	GHR622	Approval to register for BScHons in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF Exit Level (7) are also accepted. GLG114 (Introduction to Geology) GLG124 (General Geology) CEM114 (Inorganic and Analytical Chemistry) CEM124/CEM124 (Physical and Organic Chemistry) and WTW114 (Calculus) WTW124 (Algebra and Differential Equations) or STK114 (Introduction to Statistics I) STK124 (Introduction to Statistics II)
Mathematical Statistics and Actuarial Science	Actuarial Economics	ACDE1710		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Financial Mathematics	ACDF1726		Various; consult Programme Director

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Actuarial Financial Economics	ACDF2726		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Models	ACDL2726		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Contingencies	ACDL2815		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Mathematical Statistics	ACDS1710		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Statistical Methods	ACDS2716		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Financial Mathematics Summary	ACEF1721		ACDF1726
Mathematical Statistics and Actuarial Science	Actuarial Financial Economics Summary	ACEF2721		ACDF2726
Mathematical Statistics and Actuarial Science	Actuarial Models Summary	ACEL2721		ACDL2726
Mathematical Statistics and Actuarial Science	Actuarial Contingencies Summary	ACEL2811		ACDL2815
Mathematical Statistics and Actuarial Science	Actuarial Mathematical Statistics Summary	ACES1711		ACDS1710
Mathematical Statistics and Actuarial Science	Actuarial Statistical Methods Summary	ACES2711		ACDS2716
Mathematical Statistics and Actuarial Science	Specialist Employee Benefits	ACSB7920		5 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Actuarial Communications	ACSC6825		4 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Dissertation	ACSD7900		BScHons (Actuarial Science); Permission from HoD
Mathematical Statistics and Actuarial Science	Actuarial Financial Management	ACSF1514		National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematical Statistics and Actuarial Science	Actuarial Financial Reporting	ACSF1522		National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematical Statistics and Actuarial Science	Advanced Financial Mathematics	ACSF2746		60% in ATW216
Mathematical Statistics and Actuarial Science	Actuarial Financial Economics	ACSF3706		WTW214, WTW244, ATW246
Mathematical Statistics and Actuarial Science	Introduction to Actuarial Science	ACSG1624		National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematical Statistics and Actuarial Science	Actuarial Asset and Liability Management	ACSG6800		5 exemptions from Actuarial Society of STH Africa subjects plus HOD permission
Mathematical Statistics and Actuarial Science	Actuarial Asset and Liability Management	ACSG7900		5 exemptions from Actuarial Society of STH Africa subjects plus HOD permission
Mathematical Statistics and Actuarial Science	Specialist General Insurance	ACSG7920		5 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Specialist Health Insurance	ACSH7910		5 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Specialist Investments	ACSI7920		5 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Actuarial Models	ACSL3706		ATW246
Mathematical Statistics and Actuarial Science	Actuarial Contingencies	ACSL6815		4 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Specialist Life Insurance	ACSL7910		5 exemptions from Actuarial Society of STH Africa subjects
Mathematical Statistics and Actuarial Science	Actuarial Modelling and Literature Study	ACSR6808		BSc (Actuarial Science)
Mathematical Statistics and Actuarial Science	Short Dissertation	ACSR7900		BScHons (Actuarial Science), 65% for ACSR6808
Mathematical Statistics and Actuarial Science	Actuarial Statistical Methods	ACSS3716		ATW246 and WKS226
Mathematical Statistics and Actuarial Science	Actuarial Science Dissertation	ACST8900		BSc in relevant discipline, Selection MSc, Permission from ADH
Mathematical Statistics and Actuarial Science	Actuarial Science Thesis	ACST9100		MSc Selection PhD or DSc, Permission from ADH
Mathematical Statistics and Actuarial Science	Business Calculations I	EBCS51405		National Senior Certificate (NCS) Mathematics on performance level 3 (40%)
Mathematical Statistics and Actuarial Science	Business Calculations II	EBCS52405		National Senior Certificate (NCS) Mathematics on performance level 3 (40%)
Mathematical Statistics and Actuarial Science	Business Calculations I	ECPM51405		
Mathematical Statistics and Actuarial Science	Business Calculations I	EFBC51405		National Senior Certificate (NCS) Mathematics on performance level 3 (40%)
Mathematical Statistics and Actuarial Science	Introduction to Investment Science	ICSI1624		National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematical Statistics and Actuarial Science	Investment Science	ISCI3714		ISC164 and (ATW226 or ATW246)
Mathematical Statistics and Actuarial Science	Introduction to Statistics	STSA1624		Equivalent module: BMT124
Mathematical Statistics and Actuarial Science	Multiple Regression Analysis	STSA2616		STK124 or EBCS52405
Mathematical Statistics and Actuarial Science	Multiple Regression: Variance and time series analysis	STSA2626		STK216
Mathematical Statistics and Actuarial Science	Probability (I)	STSA3716		STK124 and (WTW114 or WTW134)

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Probability (II)	STSA3726		STSM3716
Mathematical Statistics and Actuarial Science	Applied Statistics I	STSA3732		STSA2626
Mathematical Statistics and Actuarial Science	Applied Statistics II	STSA3742		STSM3732
Mathematical Statistics and Actuarial Science	Multivariate Methods	STSA6815	STS616	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 65% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Data Mining	STSA6825	STS628	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Multivariate Methods	STSA7910	STS716	This module may not be registered if STS616 has already been completed.
Mathematical Statistics and Actuarial Science	Statistics Thesis	STSA9100		MSc Selection PhD or DSc, Permission from ADH
Mathematical Statistics and Actuarial Science	Bayes Analysis	STSB6815	STS611	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Bayes Analysis	STSB7910	STS711	This module may not be registered if STS611 has already been completed.
Mathematical Statistics and Actuarial Science	Categorical Data Analysis	STSC6815	STS618	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Categorical Data Analysis	STSC7910	STS718	This module may not be registered if STS618 has already been completed
Mathematical Statistics and Actuarial Science	Dissertation	STSD7900	STS791	BScHons (Statistic or Mathematical Statistics); Permission from HoD
Mathematical Statistics and Actuarial Science	Modelling Extreme Values	STSE6815	STS626	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344). STS614 is recommended, but not compulsory
Mathematical Statistics and Actuarial Science	Modelling Extreme Values	STSE7910	STS726	This module may not be registered if STS626 has already been completed.
Mathematical Statistics and Actuarial Science	Financial Time Series	STSF6815	STS615	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Risk Analysis	STSF6825	STS621	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Econometrics	STSF6845	STS623	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Financial Time Series	STSF7910	STS715	This module may not be registered if STS615 has already been completed.
Mathematical Statistics and Actuarial Science	Risk Analysis	STSF7920	STS721	This module may not be registered if STS621 has already been completed
Mathematical Statistics and Actuarial Science	Econometrics	STSF7940	STS723	This module may not be registered if STS623 has already been completed.
Mathematical Statistics and Actuarial Science	Statistics for Law I	STSL1514		
Mathematical Statistics and Actuarial Science	Statistics for Law II	STSL1524		
Mathematical Statistics and Actuarial Science	Introductory Probability Theory	STSM1624		STSM1614 and (MIN MATM1614 or 75% in MATM1534)
Mathematical Statistics and Actuarial Science	Sample distribution theory and inference	STSM2616		STSM1624
Mathematical Statistics and Actuarial Science	Bayesian Statistical Inference	STSM2626		STSM2616
Mathematical Statistics and Actuarial Science	Inference	STSM3714		MATM1624 OR MATM1544 WKS226
Mathematical Statistics and Actuarial Science	Multivariate Analysis	STSM3724		MATM1624 OR MATM1544 and STSM3714
Mathematical Statistics and Actuarial Science	Multiple Regression	STSM3734		MATM1624 OR MATM1544 MATM1624 and WKS226
Mathematical Statistics and Actuarial Science	Time series analysis	STSM3744		STSM3714 and WKS334
Mathematical Statistics and Actuarial Science	Regression Analysis	STSM6815	STS612	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Generalised Linear Models	STSM6825	STS624	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Mixed Linear Models	STSM6845	STS627	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Generalised Linear Models	STSM7920	STS724	This module may not be registered if STS624 has already been completed.
Mathematical Statistics and Actuarial Science	Mixed Linear Models	STSM7940	STS727	This module may not be registered if STS627 has already been completed.
Mathematical Statistics and Actuarial Science	Stochastic Processes	STSP6815	STS613	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344)
Mathematical Statistics and Actuarial Science	Statistical Programming	STSP6825	STS625	MATM1614 and MATM1624, as well as a minimum average mark of 65% in (STSA2616+226+316+326) or 60% in (STSM3714+324+334+344) and (WTW254 or STS614)
Mathematical Statistics and Actuarial Science	Stochastic Processes	STSP7910	STS713	This module may not be registered if STS613 has already been completed.
Mathematical Statistics and Actuarial Science	Statistical Programming	STSP7920	STS725	WTW254 or STS614 or STS714. This module may not be registered if STS625 has already been completed.

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Statistical Modelling and Literature Study	STSR6808	STS692	WTW114 and WTW124, as well as a minimum average mark of 65% in (STK216+226+316+326) or 60% in (WKS314+324+334+344)
Mathematical Statistics and Actuarial Science	Reliability and Survival Analysis	STSR6825	STS622	STS613
Mathematical Statistics and Actuarial Science	Short Dissertation	STSR7900	STS791	BScHons (Statistics or Mathematical Statistics); 65% for STS692
Mathematical Statistics and Actuarial Science	Reliability and Survival Analysis	STSR7910	STS722	STS613 or STS713
Mathematical Statistics and Actuarial Science	Stochastic Simulation	STSS6815	STS614	WTW114 and WTW124, as well as a minimum average mark of 65% in (STK216+226+316+326) or 60% in (WKS314+324+334+344)
Mathematical Statistics and Actuarial Science	Sampling Techniques	STSS6825		WTW114 and WTW124, as well as a minimum average mark of 65% in (STK216+226+316+326) or 60% in (WKS314+324+334+344)
Mathematical Statistics and Actuarial Science	Stochastic Simulation	STSS7910	STS714	This module may not be registered if STS614 has already been completed.
Mathematical Statistics and Actuarial Science	Sampling Techniques	STSS7920		This module may not be registered if STS641 has already been completed.
Mathematical Statistics and Actuarial Science	Mathematical Statistics Dissertation	STST8900		BSc in relevant discipline, Selection MSc, Permission from ADH
Mathematical Statistics and Actuarial Science	Statistics Thesis	STST9100		MSc Selection PhD or DSc, Permission from ADH
Mathematical Statistics and Actuarial Science	Capita Selecta	STSX6815	STS629	As per selected module
Mathematical Statistics and Actuarial Science	Capita Selecta	STSX6825	STS629	As per selected module
Mathematical Statistics and Actuarial Science	Capita Selecta	STSX7910	STS729	As per selected module
Mathematical Statistics and Actuarial Science	Capita Selecta	STSX7920	STS729	As per selected module
Mathematical Statistics and Actuarial Science	Introductory Financial Mathematics	Various	ACSF2716	WKS (114 & 124) and (WTW114 & WTW124)
Mathematical Statistics and Actuarial Science	Financial Mathematics	Various	ACSF2726	ATW216
Mathematical Statistics and Actuarial Science	Introductory Statistics	Various	STSM1614	NCS Mathematics level 6 (70%) or at least 60% in WTW164/WTV164 or a pass in WTW184 or WTW134
Mathematical Statistics and Actuarial Science	Introductory Biostatistics			Equivalent modules: STK124, EBCS52405
Mathematics and Applied Mathematics	Engineering Statics	MATA1614	TGW114	NSC Maths level 5
Mathematics and Applied Mathematics	Engineering Dynamics	MATA1624	TGW124	MATA1614
Mathematics and Applied Mathematics	Dynamics of Rigid Bodies	MATA2614	TGW214	MATA1624
Mathematics and Applied Mathematics	Mathematical Modeling	MATA2634	WTW234	MATM1624 OR 65% IN MATM1544
Mathematics and Applied Mathematics	Ordinary differential equations	MATA2644	WTW244	MATM1624 OR 65% IN MATM1544
Mathematics and Applied Mathematics	Industrial Mathematics	MATA3764	WTW364	MATA2634 & MATA3774
Mathematics and Applied Mathematics	Numerical Analysis	MATA3774	WTW374	MATM2614 & MATM2654
Mathematics and Applied Mathematics	Dynamical Systems	MATA3784	WTW384	MATA2644 & MATM2614
Mathematics and Applied Mathematics	Algebra	MATA6814	WTW601	Selection BSc
Mathematics and Applied Mathematics	Algebra	MATA6824	WTW601	Selection BSc
Mathematics and Applied Mathematics	Algebra	MATA7914	WTW701	Selection MSc
Mathematics and Applied Mathematics	Algebra	MATA7924	WTW701	Selection MSc
Mathematics and Applied Mathematics	Applied Mathematics Dissertation	MATA8900	WTW700/ MTHA700	BSc in relevant discipline, Selection MSc, Permission from ADH
Mathematics and Applied Mathematics	Mathematics Thesis	MATA9100	WTW900	MSc Selection PhD or DSc, Permission from ADH
Mathematics and Applied Mathematics	Galois Theory	MATB6814	WTW602	Selection BSc
Mathematics and Applied Mathematics	Galois Theory	MATB6824	WTW602	Selection BSc
Mathematics and Applied Mathematics	Galois Theory	MATB7914	WTW702	Selection MSc
Mathematics and Applied Mathematics	Galois Theory	MATB7924	WTW702	Selection MSc
Mathematics and Applied Mathematics	Topology	MATC6814	WTW603	Selection BSc
Mathematics and Applied Mathematics	Topology	MATC6824	WTW603	Selection BSc
Mathematics and Applied Mathematics	Topology	MATC7914	WTW703	Selection MSc
Mathematics and Applied Mathematics	Topology	MATC7924	WTW703	Selection MSc
Mathematics and Applied Mathematics	Modern Topology	MATD6814	WTW604	Selection BSc
Mathematics and Applied Mathematics	Modern Topology	MATD6824	WTW604	Selection BSc
Mathematics and Applied Mathematics	Modern Topology	MATD7914	WTW704	Selection MSc
Mathematics and Applied Mathematics	Modern Topology	MATD7924	WTW704	Selection MSc
Mathematics and Applied Mathematics	Functional Analysis	MATE6814	WTW605	Selection BSc
Mathematics and Applied Mathematics	Functional Analysis	MATE6824	WTW605	Selection BSc
Mathematics and Applied Mathematics	Functional Analysis	MATE7914	WTW705	Selection MSC
Mathematics and Applied Mathematics	Functional Analysis	MATE7924	WTW705	Selection MSC
Mathematics and Applied Mathematics	Measure and integration theory	MATF6814	WTW606	Selection BSc
Mathematics and Applied Mathematics	Measure and integration theory	MATF6824	WTW606	Selection BSc
Mathematics and Applied Mathematics	Measure and integration theory	MATF7914	WTW706	Selection MSc
Mathematics and Applied Mathematics	Measure and integration theory	MATF7924	WTW706	Selection MSc
Mathematics and Applied Mathematics	Coding Theory	MATG6814	WTW607	Selection BSc

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematics and Applied Mathematics	Coding Theory	MATG6824	WTW607	Selection BSc
Mathematics and Applied Mathematics	Coding Theory	MATG7914	WTW707	Selection MSc
Mathematics and Applied Mathematics	Coding Theory	MATG7924	WTW707	Selection MSc
Mathematics and Applied Mathematics	Discrete Mathematics	MATH6814	WTW608	Selection BSc
Mathematics and Applied Mathematics	Discrete Mathematics	MATH6824	WTW608	Selection BSc
Mathematics and Applied Mathematics	Discrete Mathematics	MATH7914	WTW708	Selection MSc
Mathematics and Applied Mathematics	Discrete Mathematics	MATH7924	WTW708	Selection MSc
Mathematics and Applied Mathematics	Set theory	MATI6814	WTW609	Selection BSc
Mathematics and Applied Mathematics	Set theory	MATI6824	WTW609	Selection BSc
Mathematics and Applied Mathematics	Set theory	MATI7914	WTW709	Selection MSc
Mathematics and Applied Mathematics	Set theory	MATI7924	WTW709	Selection MSc
Mathematics and Applied Mathematics	Group Theory	MATJ6814	WTW610	Selection BSc
Mathematics and Applied Mathematics	Group Theory	MATJ6824	WTW610	Selection BSc
Mathematics and Applied Mathematics	Group Theory	MATJ7914	WTW710	Selection MSc
Mathematics and Applied Mathematics	Group Theory	MATJ7924	WTW710	Selection MSc
Mathematics and Applied Mathematics	Ring theory	MATK6814	WTW611	Selection BSc
Mathematics and Applied Mathematics	Ring theory	MATK6824	WTW611	Selection BSc
Mathematics and Applied Mathematics	Ring theory	MATK7914	WTW711	Selection MSc
Mathematics and Applied Mathematics	Ring theory	MATK7924	WTW711	Selection MSc
Mathematics and Applied Mathematics	Category theory	MATL6814	WTW612	Selection BSc
Mathematics and Applied Mathematics	Category theory	MATL6824	WTW612	Selection BSc
Mathematics and Applied Mathematics	Category theory	MATL7914	WTW712	Selection MSc
Mathematics and Applied Mathematics	Category theory	MATL7924	WTW712	Selection MSc
Mathematics and Applied Mathematics	Calculus	MATM1534	WTW134	Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematics and Applied Mathematics	Calculus and linear algebra	MATM1544	WTW144	WTW134 or at least 40% in WTW114
Mathematics and Applied Mathematics	Precalculus I	MATM1574	WTW174	National Senior Certificate (NCS) Mathematics on performance level 4 (50%)
Mathematics and Applied Mathematics	Precalculus II	MATM1584	WTW184	WTW174
Mathematics and Applied Mathematics	Calculus	MATM1614	WTW114	National Senior Certificate Mathematics performance level 7or at least 80% in MATD1564 or at least 70% in MATM1584 or at least 50% in MATM1534 AND at least 60% in a Departmental admission test.

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematics and Applied Mathematics	Algebra and Logic	MATM1624	WTW124	MATM1614
Mathematics and Applied Mathematics	Introductory calculus and statics for Architecture, Quantity Surveying and Construction Management	MATM1542	WTW142	National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematics and Applied Mathematics	Vector analysis	MATM2614	WTW214	MATM1624
Mathematics and Applied Mathematics	Linear Algebra	MATM2624	WTW224	MATM1624
Mathematics and Applied Mathematics	Scientific Computing	MATM2654	WTW254	MATM1624 OR 65% IN MATM1544
Mathematics and Applied Mathematics	Sequences and series	MATM2664	WTW264	MATM1624
Mathematics and Applied Mathematics	Complex analysis	MATM3714	WTW314	MATM2614 & MATM2664
Mathematics and Applied Mathematics	Real analysis	MATM3724	WTW324	MATM2614 & MATM2664
Mathematics and Applied Mathematics	Discrete Mathematics	MATM3734	WTW334	MATM2624 & MATM2664
Mathematics and Applied Mathematics	Algebra	MATM3744	WTW344	MATM2624
Mathematics and Applied Mathematics	Methods of Mathematics	MATM6814	WTW613	Selection BSc
Mathematics and Applied Mathematics	Mathematics Research Report	MATM6819	WTW692	BSc (Hon)
Mathematics and Applied Mathematics	Methods of Mathematics	MATM6824	WTW613	Selection BSc
Mathematics and Applied Mathematics	Mathematics Research Report	MATM6829	WTW692	BSc (Hon)
Mathematics and Applied Mathematics	Mathematics Research Report	MATM7910	WTW792	MSc
Mathematics and Applied Mathematics	Methods of Mathematics	MATM7914	WTW713	Selection MSc
Mathematics and Applied Mathematics	Mathematics Thesis	MATM7920	WTW792	MSc
Mathematics and Applied Mathematics	Methods of Mathematics	MATM7924	WTW713	Selection MSc
Mathematics and Applied Mathematics	Mathematics Dissertation	MATM8900	WTW700/ MTHA700	BSc in relevant discipline, Selection MSc, Permission from ADH
Mathematics and Applied Mathematics	Mathematics Thesis	MATM9100	WTW900	MSc Selection PhD or DSc, Permission from ADH
Mathematics and Applied Mathematics	Digital Image Processing	MATN6814	WTW614	Selection BSc
Mathematics and Applied Mathematics	Digital Image Processing	MATN6824	WTW614	Selection BSc
Mathematics and Applied Mathematics	Digital Image Processing	MATN7914	WTW714	Selection MSc
Mathematics and Applied Mathematics	Digital Image Processing	MATN7924	WTW714	Selection MSc
Mathematics and Applied Mathematics	Numerical linear algebra	MATO6814	WTW615	Selection BSc
Mathematics and Applied Mathematics	Numerical linear algebra	MATO6824	WTW615	Selection BSc
Mathematics and Applied Mathematics	Numerical linear algebra	MATO7914	WTW715	Selection MSc
Mathematics and Applied Mathematics	Numerical linear algebra	MATO7924	WTW715	Selection MSc
Mathematics and Applied Mathematics	Numerical Solution of Differential Equations	MATP6814	WTW616	Selection BSc
Mathematics and Applied Mathematics	Numerical Solution of Differential Equations	MATP6824	WTW616	Selection BSc

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematics and Applied Mathematics	Numerical Solution of Differential Equations	MATP7914	WTW716	Selection MSc
Mathematics and Applied Mathematics	Numerical Solution of Differential Equations	MATP7924	WTW716	Selection MSc
Mathematics and Applied Mathematics	Optimisation	MATQ6814	WTW617	Selection BSc
Mathematics and Applied Mathematics	Optimisation	MATQ6824	WTW617	Selection BSc
Mathematics and Applied Mathematics	Optimisation	MATQ7914	WTW717	Selection MSC
Mathematics and Applied Mathematics	Optimisation	MATQ7924	WTW717	Selection MSC
Mathematics and Applied Mathematics	Calculus	MATR1534	WTW134	Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematics and Applied Mathematics	Calculus	MATR1614	WTW114	NSC Maths level 7 or at least 75% in WTW164/WTV164 or at least 65% in WTW184 or at least 50% in WTW134
Mathematics and Applied Mathematics	Cryptography	MATR6814	WTW618	Selection BSc
Mathematics and Applied Mathematics	Cryptography	MATR6824	WTW618	Selection BSc
Mathematics and Applied Mathematics	Cryptography	MATR7914	WTW718	Selection MSc
Mathematics and Applied Mathematics	Cryptography	MATR7924	WTW718	Selection MSc
Mathematics and Applied Mathematics	Partial differential equations	MATS6814	WTW619	Selection BSc
Mathematics and Applied Mathematics	Partial differential equations	MATS6824	WTW619	Selection BSc
Mathematics and Applied Mathematics	Partial differential equations	MATS7914	WTW719	Selection MSc
Mathematics and Applied Mathematics	Partial differential equations	MATS7924	WTW719	Selection MSc
Mathematics and Applied Mathematics	Fluid Mechanics	MATT6814	WTW620	Selection BSc
Mathematics and Applied Mathematics	Fluid Mechanics	MATT6824	WTW620	Selection BSc
Mathematics and Applied Mathematics	Fluid Mechanics	MATT7914	WTW720	Selection MSc
Mathematics and Applied Mathematics	Fluid Mechanics	MATT7924	WTW720	Selection MSc
Mathematics and Applied Mathematics	Biological Modelling	MATU6814	WTW621	Selection BSc
Mathematics and Applied Mathematics	Biological Modelling	MATU6824	WTW621	Selection BSc
Mathematics and Applied Mathematics	Biological Modelling	MATU7914	WTW721	Selection MSc
Mathematics and Applied Mathematics	Biological Modelling	MATU7924	WTW721	Selection MSc
Mathematics and Applied Mathematics	Fractional calculus	MATV6814	WTW622	Selection BSc
Mathematics and Applied Mathematics	Fractional calculus	MATV6824	WTW622	Selection BSc
Mathematics and Applied Mathematics	Fractional calculus	MATV7914	WTW722	Selection MSc
Mathematics and Applied Mathematics	Fractional calculus	MATV7924	WTW722	Selection MSc
Mathematics and Applied Mathematics	Financial Mathematics	MATW6814	WTW623	Selection BSc
Mathematics and Applied Mathematics	Financial Mathematics	MATW6824	WTW623	Selection BSc

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematics and Applied Mathematics	Financial Mathematics	MATW7914	WTW723	Selection MSC
Mathematics and Applied Mathematics	Financial Mathematics	MATW7924	WTW723	Selection MSC
Mathematics and Applied Mathematics	Graph theory	MATX6814	WTW624	MATM3734 AND AT LEAST 40% IN MATM3744
Mathematics and Applied Mathematics	Graph theory	MATX6824	WTW624	MATM3734 AND AT LEAST 40% IN MATM3744
Mathematics and Applied Mathematics	Graph theory	MATX7914	WTW724	MATM3734 AND AT LEAST 40% IN MATM3744
Mathematics and Applied Mathematics	Graph theory	MATX7924	WTW724	MATM3734 AND AT LEAST 40% IN MATM3744
Mathematics and Applied Mathematics	Asymptotic methods	MATY6814	WTW625	Selection BSc
Mathematics and Applied Mathematics	Asymptotic methods	MATY6824	WTW625	Selection BSc
Mathematics and Applied Mathematics	Perturbation methods	MATY7914	WTW725	MATY6814 or MATY6824
Mathematics and Applied Mathematics	Perturbation methods	MATY7924	WTW725	MATY6814 or MATY6824
Mathematics and Applied Mathematics	Capita Selecta	MATZ6814	WTW644	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6824	WTW644	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6834	WTW645	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6844	WTW645	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6854	WTW646	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6864	WTW646	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7914	WTW744	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7924	WTW744	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7934	WTW745	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7944	WTW745	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7954	WTW746	Selection MSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ7964	WTW746	Selection MSc
Mathematics and Applied Mathematics	Mathematics Literacy in Humanities	MTDH1508	MTA108	NSC
Mathematics and Applied Mathematics	Mathematics Literacy in Law	MTDL1508	MTT108	NSC
Microbial, Biochemical and Food Biotechnolgy	Introduction to Biochemistry and Microbiology	BLGY1683	BLGY1683	BLGY1513/BLGY1503
Microbial, Biochemical and Food Biotechnolgy	Biochemistry of biological compounds	BOCB2616	BOC216	BLGY1683 and CHEM1624 / CHEM1644
Microbial, Biochemical and Food Biotechnolgy	Bioinformatics and omics sciences	BOCB6824	BOC654	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Biochemistry Thesis	BOCD9100 BOCT9100	BOC900	MSc Selection PhD or DSc, Permission from ADH

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	Enzymology and introductory metabolism	BOCE2626	BOC226	BOCB2616
Microbial, Biochemical and Food Biotechnolgy	Advanced enzyme kinetics and metabolism	BOCE3714	BOC324/ BOC374	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Enzymology and catalysis	BOCE6814	BOC634	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Biochemistry for agriculture and health sciences	BOCH2614	BCC214	None
Microbial, Biochemical and Food Biotechnolgy	Research: Literature study	BOCL6826	BOC693	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Molecular biology	BOCM3714	BOC314	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Advanced molecular biology	BOCM6814	BOC674	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Biochemistry Dissertation	BOCM8900	BOC700	BSc in relevant discipline, Selection MSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Oral examination of theory and practical	BOCO6822	BOC622	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Protein and proteome analysis	BOCP3724	BOC334/ BOC384	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Research essay	BOCR6828	BOC692	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Cell membranes, signal transduction and immunology	BOCS3724	BOC344	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Structural biology	BOCS6824	BOC624	BOCE6814
Microbial, Biochemical and Food Biotechnolgy	General analytical and chromatographic techniques in Biochemistry	BOCT6814	BOC614	BScHons Selection (BSc degree with at least 64 credits in Biochemistry at 3rd year level. 65% average for all undergraduate Biochemistry modules.)
Microbial, Biochemical and Food Biotechnolgy	Food products from animals	FSCA3714	VWS314	FSCS2624
Microbial, Biochemical and Food Biotechnolgy	Food Microbiology	FSCB3724	VWS344	MKB216
Microbial, Biochemical and Food Biotechnolgy	Food Chemistry	FSCC2613	VWS232	CEM114 or [CHE112 + CHE142 + CHE151] and [CEM124/144] or [CHE132 + CHE122 + CHE161]
Microbial, Biochemical and Food Biotechnolgy	Chemical analysis of food	FSCC2622	VWS222	FSCC2613, and [CEM114 or CHE112 + CHE142 + CHE151] and [CEM124/144] or [CHE132 + CHE122 + CHE161]

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	Food chemistry	FSCC6816		BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Dairy Science	FSCD4814	VWS424	FSCA3714
Microbial, Biochemical and Food Biotechnolgy	Dairy Science	FSCD6814	None	VWS424 FSCA3714
Microbial, Biochemical and Food Biotechnolgy	Dairy Science		VWS603	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Food Engineering	FSCE3714	VWS334	FSCI2613, FSK134
Microbial, Biochemical and Food Biotechnolgy	Foods: General	FSCF6826	VWS605	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Selected topics in Food Science	FSCF6846	VWS607	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Product development and sensory	FSCG6826	None	VWS434, FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Product development and sensory	FSCG4826	VWS434	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Introductory Food Science	FSCI2613	VWS212	
Microbial, Biochemical and Food Biotechnolgy	Food Science Dissertation	FSCI8900	VWS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Food Science Thesis	FSCI9100	VWS900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Literature study		VWS695	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Literature study	FSCL6806	VWS695	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Meat Science	FSCM4814	VWS444	
Microbial, Biochemical and Food Biotechnolgy	Meat Science	FSCM6814	None	VWS444 FSCP3714
Microbial, Biochemical and Food Biotechnolgy	Meat Science	FSCM6824	VWS604	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Food products from plants	FSCP3724	VWS324	FSCS2624
Microbial, Biochemical and Food Biotechnolgy	Food products from plants; advanced	FSCP4814	VWS414	
Microbial, Biochemical and Food Biotechnolgy	Food products from plants; advanced	FSCP6814	None	VWS414 FSCA3714
Microbial, Biochemical and Food Biotechnolgy	Fruit, vegetables and seeds		VWS606	FSCP3724
Microbial, Biochemical and Food Biotechnolgy	Literature study	FSCR4803	VWS695	FSCA3714, FSCE3714, FSCP3724, FSCB3724

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	Research Project	FSCR4805	VWS693	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Research Project	FSCR6808	VWS693	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Food Systems	FSCS2624	VWS224	FSCI2613, FSCC2613
Microbial, Biochemical and Food Biotechnolgy	Food Science Research Project	FSPR6808	VWS693	BScHons Selection
Microbial, Biochemical and Food Biotechnolgy	Industrial quality management	IQMQ2622	IQM242	None
Microbial, Biochemical and Food Biotechnolgy	Microbial Biotechnology Dissertation	MBBT8900	BTG700	BSc in relevant discipline, Selection MSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Microbial Biotechnology Thesis	MBBT9100	BTG900	MSc Selection PhD or DSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Commercial microbial products and biotechnology	MCBC3724		MCBP2626
Microbial, Biochemical and Food Biotechnolgy	Continuous and batch cultivation of microorganisms	MCBC6814	MKB694/ BTG634	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3721
Microbial, Biochemical and Food Biotechnolgy	Microbial diversity	MCBD6824	MKB634	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3716
Microbial, Biochemical and Food Biotechnolgy	Microbial evolution and diversity	MCBP2626	MKB226	MCBP2616
Microbial, Biochemical and Food Biotechnolgy	Growth, nutrition and death of microoganisms	MCBG3714	MKB314	MCBP2626
Microbial, Biochemical and Food Biotechnolgy	Introduction to Microbiology for health sciences	MCBH2614	MCB214	None
Microbial, Biochemical and Food Biotechnolgy	Pathogenic microorganisms	MCBH2624	MCB224	MCBH2614
Microbial, Biochemical and Food Biotechnolgy	Research Literature Study	MCBL6826	MKB693	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include VWS344 and BOC314.
Microbial, Biochemical and Food Biotechnolgy	Research: Literature Study	MCBL6826	MKB693	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3720
Microbial, Biochemical and Food Biotechnolgy	Metabolic diversity	MCBM3724	MKB324	MCBP2626, BOCE2626

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	Advanced molecular biology	MCBM6814	MKB674	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 (VWS344) and BOCM3718 (BOC314)
Microbial, Biochemical and Food Biotechnolgy	Oral examination in theory and practicals	MCBO6822	MKB622	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3715
Microbial, Biochemical and Food Biotechnolgy	The basic principles of Microbiology	MCBP2616	MKB216	BLGY1513 & BLGY1683
Microbial, Biochemical and Food Biotechnolgy	Microbial evolution and diversity	MCBE2626	MKB226	MCBP2616
Microbial, Biochemical and Food Biotechnolgy	Pathogens and immunity	MCBP3724	MKB344	MCBP2626
Microbial, Biochemical and Food Biotechnolgy	Applied microbial physiology	MCBP6814	MKB654	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 (VWS344) and BOCM3717 (BOC314)
Microbial, Biochemical and Food Biotechnolgy	Research project	MCBR6828	MKB692	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include VWS344 and BOC314.
Microbial, Biochemical and Food Biotechnolgy	Research essay (second to fourth quarter)	MCBR6828	MKB692	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3719
Microbial, Biochemical and Food Biotechnolgy	Techniques in Microbiology	MCBT6814	MKB614	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 (VWS344) and BOCM3714 (BOC314).
Microbial, Biochemical and Food Biotechnolgy	Microbiology Dissertation	MCBT8900	MKB700	BSc in relevant discipline, Selection MSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Microbiology Thesis	MCBT9100	MKB900	MSc Selection PhD or DSc, Permission from ADH
Microbial, Biochemical and Food Biotechnolgy	Oral examination in theory and practicals	MCBO6822	MKB622	BScHons Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include VWS344 and BOC314.
Office of the Dean	Introduction to Biology	BLGY1513	BLG114	NCS Life Sciences level 5
Office of the Dean	Natural Science Education Community Service Learning	CLNS3702	NEC302	
Office of the Dean	Introduction to Mathematics	MATD1400	WTV100	NCS at least Mathematical Literacy level 3
Office of the Dean	Introduction to University Mathematics 1	MATD1564		National Senior Certificate (NCS) Mathematics on performance level 4 (50%)

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Office of the Dean	Introduction to University Mathematics 1	MATD1564		National Senior Certificate (NCS) Mathematics on performance level 4 (50%)
Office of the Dean	Academic Literacy, Language and Communication	QALC1513	QALC1510	
Office of the Dean	Engineering Drawings	QEDR1524		
Office of the Dean	Engineering Forum	QEFO1520		
Office of the Dean	Electrotechnique	QELT2722		PHYS1514, PHYS1624, Pre-Cond.: PHYS2624 (Min. 40%), Pre-Cond.: PHYS2632 (Min. 40%)
Office of the Dean	Environmental Engineering Design Project	QENV3724		Pass ALL 2nd year modules
Office of the Dean	Flow Mechanics	QFLO3724		PHYS2614, PHYS2624 , Pre-Cond.: MATA2614 (Min. 40%)
Office of the Dean	Machine Design	QMAD2612		Pre-cond.: PHYS1614 (Min. 40%), MATM1614 (Min. 40%), MATM1624 (Min. 40%)
Office of the Dean	Engineering Materials	QMAT2613		
Office of the Dean	Material Science	QMSC2613		
Office of the Dean	Electrical Power Systems	QPOW3724		QELT2722
Office of the Dean	Signal Theory	QSIG3714		PHYS2624, PHYS2642, QELT2722
Office of the Dean	Strength of Materials 1	QSTR2624		MATM1614, MATA1614, Pre-Cond.: MATM2614 (Min. 40%)
Office of the Dean	Strength of Materials 2	QSTR3714		Pre-Cond.: QSTR2624 (Min. 40%)
Office of the Dean	Strength of Materials 3	QSTR3724		QSTR2624
Office of the Dean	Engineering Survey	QSUR3614		MATM1614, MATM1624
Office of the Dean	Engineering Thermodynamics	QTHE3724		PHYS2614
Office of the Dean	Practical Experience (8 weeks)	QVAC2520		Pre-Cond.: QALC1513 (Min. 40%)
Office of the Dean	Workshop Practice	QWOR2520		
Office of the Dean	Skills and Competencies for Natural Sciences	SCNS1508	VBN108	
Physics	The structure and evolution of stars	PHYA2613	AST251	PHYA1554 and PHYA1664 and WTW114 and WTW124
Physics	The structure and evolution of galaxies	PHYA2623	AST252	PHYA1554 and PHYA1664 and WTW114 and WTW124
Physics	Astronomy Practical	PHYA3708	none	PHYA2613 and PHYA2623
Physics	Radiative Processes I	PHYA3772	FSK372	FSK214 and FSK242
Physics	Radiative Processes II	PHYA3782	FSK382	FSK314 and FSK332 and FSK372
Physics	NASSP Hons theory	PHYA6800	FSK625	Selection BScHons (NASSP)
Physics	Astrophysics Research Essay	PHYA6808	FSK692	Selection BScHon
Physics	Astrophysics	PHYA6814	FSK612	Selection BScHon
Physics	Astrophysics	PHYA6824	FSK612	Selection BScHon
Physics	General Relativity and Cosmology	PHYA6834	FSK614	Selection BScHon
Physics	General Relativity and Cosmology	PHYA6844	FSK614	Selection BScHon
Physics	Astrophysical Fluid Dynamics	PHYA6854	FSK613	Selection BScHon
Physics	Astrophysical Fluid Dynamics	PHYA6864	FSK613	Selection BScHon
Physics	High Energy Astrophysics	PHYA6874	none	Selection BScHon
Physics	High Energy Astrophysics	PHYA6884	none	Selection BScHon
Physics	NASSP MSc Theory	PHYA7900	FSK725	Selection MSc (NASSP)
Physics	NASSP MSc Dissertation	PHYA7990	FSK791	Selection MSc (NASSP)
Physics	Astrophysics Dissertation	PHYA8900	FSK700	BSc in relevant discipline, Selection MSc, Permission from ADH
Physics	Astrophysics Thesis	PHYA9100	FSK900	MSc Selection PhD or DSc, Permission from ADH
Physics	Capita selecta I	PHYC6814	FSK613	Selection BScHon
Physics	Capita selecta III	PHYC6824	FSK613	Selection BScHon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Physics	Capita selecta II	PHYC6834	FSK614	Selection BScHon
Physics	Capita selecta IV	PHYC6844	FSK614	Selection BScHon
Physics	Electrodynamics	PHYE6814	FSK608	Selection BScHon
Physics	Electrodynamics	PHYE6824	FSK608	Selection BScHon
Physics	Electronics	PHYE6834	FSK611	Selection BScHon
Physics	Electronics	PHYE6844	FSK611	Selection BScHon
Physics	Statistical Physics	PHYI6814	FSK607	Selection BScHon
Physics	Statistical Physics	PHYI6824	FSK607	Selection BScHon
Physics	Materials Science I	PHYI6834	FSK609	Selection BScHon
Physics	Materials Science I	PHYI6844	FSK609	Selection BScHon
Physics	Materials Science II	PHYI6854	FSK610	Selection BScHon
Physics	Materials Science II	PHYI6864	FSK610	Selection BScHon
Physics	Semiconductors	PHYI6874	FSK606	Selection BScHon
Physics	Semiconductors	PHYI6884	FSK606	Selection BScHon
Physics	Research Techniques	PHYR6814	FSK603	Selection BScHon
Physics	Research Techniques	PHYR6824	FSK603	Selection BScHon
Physics	Physics for students in the Building Sciences	PHYS1512	FSK112	None
Physics	Mechanics, Optics and Electricity	PHYS1514	FSK114	With (WTW114 or WTW134)
Physics	Mechanics, Optics, Electricity, Biologically and Medically Relevant Topics	PHYS1534	FSK134	None
Physics	Physics for physiotherapists	PHYS1543	FSK143	FSK134
Physics	Introductory Astronomy	PHYA1554	FSK154	None
Physics	Mechanics, Thermodynamics, Electricity and Magnetism	PHYS1624	FSK124	Min. (FSK114 or FSK134) and Min. (WTW114 or WTW134)
Physics	Mechanics, Thermodynamics, Electricity, Magnetism, Biologically and Medically Relevant Topics	PHYS1644	FSK144	None
Physics	Mechanics, Thermodynamics, Electricity, Magnetism, Biologically and Medically Relevant Topics	PHYS1644	FSK144	None
Physics	Principles and Practice of Observational Astronomy	PHYA1664	FSK164	FSK154
Physics	Mechanics, Waves and Optics	PHYS2614	FSK214	(FSK114 or 60% FSK134) and (FSK124 or 60% FSK144) and (WTW114 or WTW134) and (WTW124 or WTW144)
Physics	Electronics	PHYS2624	FSK224	(FSK114 or 60% FSK134) and (FSK124 or 60% FSK144) and (WTW114 or WTW134) and (WTW124 or WTW144)
Physics	Practical Work: Physics	PHYS2632	FSK232	(With FSK214)
Physics	Electromagnetism	PHYS2642	FSK242	FSK214
Physics	Ophthalmic Optics / Visual Optics	PHYS2654	FSK254	(FSK114 or FSK134) and (FSK124 or FSK144)
Physics	Special Ophthalmic Optics	PHYS2664	FSK264	FSK254 and (FSK114 or FSK134) and (FSK124 or FSK144)
Physics	Modern Physics	PHYS3714	FSK314	FSK214
Physics	Solid-state Physics	PHYS3724	FSK324	FSK314
Physics	Statistical Physics I	PHYS3732	FSK332	FSK214
Physics	Statistical Physics II	PHYS3742	FSK342	FSK332
Physics	Practical Work: Physics	PHYS3752	FSK352	FSK232 and (With FSK314 and FSK332)
Physics	Practical Work: Physics	PHYS3762	FSK362	FSK232 and (With FSK324 and FSK342)
Physics	Physics Research Essay	PHYS6808	FSK692	Selection BScHon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Physics	Quantum Mechanics	PHYS6814	FSK601	Selection BScHon
Physics	Quantum Mechanics	PHYS6824	FSK601	Selection BScHon
Physics	Solid State Physics I	PHYS6834	FSK602	Selection BScHon
Physics	Solid State Physics I	PHYS6844	FSK602	Selection BScHon
Physics	Mathematical Methods of Physics	PHYS6854	FSK604	Selection BScHon
Physics	Mathematical Methods of Physics	PHYS6864	FSK604	Selection BScHon
Physics	Solid State Physics II	PHYS6874	FSK605	Selection BScHon
Physics	Solid State Physics II	PHYS6884	FSK605	Selection BScHon
Physics	Physics Dissertation	PHYS8900	FSK700	BSc in relevant discipline, Selection MSc, Permission from ADH
Physics	Physics Thesis	PHYS9100	FSK900	MSc Selection PhD or DSc, Permission from ADH
Plant Sciences	The interdependence of plants and life on earth	BLGY1643	BLG144	BLGY1513
Plant Sciences	Field excursion 1	BTNY2622	PLK202	MIN BTNY2616 (only BSc and BScAgric students) BLGY1513 and BLGY1643
Plant Sciences	Plant adaptations for survival on land	BTNY2616	PLK214 + PLK212/ PLK216	BLGY1513 and BLGY1643 (55%)
Plant Sciences	Introductory plant development and biotechnology	BTNY2626	PLK224 + PLK262/ PLK226	MIN BTNY2616
Plant Sciences	Field excursion 2	BTNY3702	PLK302	Min. BTNY2616
Plant Sciences	Diversity and systematics of higher plants	BTNY3714	PLK314	Min. BTNY2616
Plant Sciences	Plant carbon metabolism and eco-physiology	BTNY3724	PLK324	None
Plant Sciences	Vegetation science and environmental management	BTNY3734	PLK334	Min. BTNY2616
Plant Sciences	Plant defence and biotechnology	BTNY3744	PLK344	Min. BTNY2626
Plant Sciences	Plant molecular biotechnology	BTNY3754	PLK354	Min. BTNY2616
Plant Sciences	Literature review	BTNY6806	PLK696	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Research project	BTNY6808	PLK698	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Advanced plant ecology	BTNY6814	PLK614	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Plant metabolism and growth	BTNY6824	PLK624	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Plant molecular systematics	BTNY6834	PLK634	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Plant defence and applications	BTNY6844	PLK644	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Advanced plant taxonomy	BTNY6854	PLK654	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Ecosystem management and restoration	BTNY6864	PLK664	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Advanced plant molecular biotechnology	BTNY6874	PLK674	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Plant analytical biochemistry	BTNY6884	PLK684	BSc degree in Botany with at least 60% in Botany at third-year level
Plant Sciences	Botany Dissertation Dissertation	BTNY8900	PLK700	BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Botany Thesis	BTNY9100	PLK900	MSc Selection PhD or DSc, Permission from ADH
Plant Sciences	Literature review	ENRH6806	ORH696	BSc degree in Environmental Rehabilitation with at least 60% in Botany at third-year level
Plant Sciences	Research project	ENRH6808	ORH698	BSc degree in Environmental Rehabilitation with at least 60% in Botany at third-year level
Plant Sciences	Environmental Rehabilitation Dissertation	ENRH8900	ORH700	BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Environmental Rehabilitation Thesis	ENRH9100	ORH900	MSc Selection PhD or DSc, Permission from ADH
Plant Sciences	Plant Health Ecology Dissertation	PHEC8900	PPG701	BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Plant Health Ecology Thesis	PHEC9100	PPG901	MSc Selection PhD or DSc, Permission from ADH
Plant Sciences	Theoretical principles of plant breeding	PLTB2613	PLT224	None
Plant Sciences	Applied principles of plant breeding	PLTB2623	PLT224	PLTB2613
Plant Sciences	Principles of quantitative genetics in plant breeding	PLTB3714	PLT314	None
Plant Sciences	Breeding for abiotic stress tolerance	PLTB3724	PLT324	None
Plant Sciences	Advanced plant breeding techniques	PLTB3744	PLT424	None
Plant Sciences	Literature review	PLTB4806	PLT496/ PLT696	None
Plant Sciences	Research project	PLTB4808	PLT696	None
Plant Sciences	Advanced quantitative genetics in plant breeding	PLTB4814	PLT614/ PLT414	None
Plant Sciences	Quality and stress tolerance breeding	PLTB4824	PLT624	None
Plant Sciences	Marker-assisted breeding	PLTB4834	PLT634	None
Plant Sciences	Statistics in plant sciences	PLTB4854	PLT644/ PLT654	None
Plant Sciences	Literature review	PLTB6806	PLT696	BSc or equivalent degree with the appropriate majors
Plant Sciences	Research project	PLTB6808	PLT698	BSc or equivalent degree with the appropriate majors
Plant Sciences	Advanced quantitative genetics in plant breeding	PLTB6814	PLT614	BSc or equivalent degree with the appropriate majors
Plant Sciences	Quality and stress tolerance breeding	PLTB6824	PLT624	BSc or equivalent degree with the appropriate majors
Plant Sciences	Marker-assisted breeding	PLTB6834	PLT634	BSc or equivalent degree with the appropriate majors
Plant Sciences	Statistics in plant sciences	PLTB6854	PLT644/ PLT654	BSc or equivalent degree with the appropriate majors
Plant Sciences	Advanced statistics in plant sciences	PLTB6874	PLT644	BSc or BSc Agric with the appropriate majors
Plant Sciences	Plant Breeding Dissertation	PLTB8900	PLT700	BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Plant Breeding Thesis	PLTB9100	PLT900	MSc Selection PhD or DSc, Permission from ADH
Plant Sciences	Plant Breeding Interdisciplinary	PLTI8900		BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Plant Breeding Thesis Interdisciplinary	PLTI9100	PLT999	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Plant Sciences	Principles of Plant Pathology	PPLG2624	PPG214/ PPG224	Min. BLGY1513 and Min. one of BLGY1643 or BLGY1683
Plant Sciences	Mycological plant pathology	PPLG3714	PPG414/ PPG314	Min. PPLG2624
Plant Sciences	Plant disease management	PPLG3724	PPG324	Min. PPLG2624
Plant Sciences	Bacterial and viral plant pathology	PPLG3734	PPG424/ PPG334	Min. PPLG2624
Plant Sciences	Ecology of plant pathogens	PPLG3744	PPG344	Min. PPLG2624
Plant Sciences	Literature review	PPLG4806	PPG496	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Plant Sciences	Research project	PPLG4808	PPG498	None
Plant Sciences	Plant-pathogen interactions	PPLG4824	PPG424/ PPG444	None
Plant Sciences	Epidemiology and control of plant diseases	PPLG4834	PPG434	None
Plant Sciences	Molecular plant pathology	PPLG4844	PPG334/ PPG444	None
Plant Sciences	Literature review	PPLG6806	PPG696	None
Plant Sciences	Research project	PPLG6808	PPG698	None
Plant Sciences	Plant-pathogen interactions	PPLG6824	PPG624/ PPG444	None
Plant Sciences	Epidemiology and control of plant diseases	PPLG6834	PPG634	None
Plant Sciences	Molecular plant pathology	PPLG6844	PPG334/ PPG644	None
Plant Sciences	Plant Pathology Dissertation	PPLG8900	PPG702	BSc in relevant discipline, Selection MSc, Permission from ADH
Plant Sciences	Plant Pathology Thesis	PPLG9100	PPG902	MSc Selection PhD or DSc, Permission from ADH
Quantiy Surveying and Construction Management	Applied Building Science Ii	ABSD2604	ABS204/ ABS204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Applied Building Science Iii	ABSD3704	ABS304/ ABS304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Applied Building Science Ii	ABSR2604	ABS204/ ABS204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Applied Building Science Iii	ABSR3704	ABS304/ ABS304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Advanced Construction and Agricultural Engineering	AINC7901	CIN793	CINC7901
Quantiy Surveying and Construction Management	Advanced Property Development	ANDC7902	END793	Hons level qualification
Quantiy Surveying and Construction Management	Advanced Project Management Iv	APMD6803	GPB404/ APM404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Advanced Project Management Iv	APMR6803	GPB404/ APM404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Architecture	ARGD2604	ARG204/ ARG204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Architecture	ARGR2604	ARG204/ ARG204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Building Science Ii	BCSD2604	BOW204/ BSC204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Building Economics	BOEC7902	BOE704	Hons level qualification
Quantiy Surveying and Construction Management	Building Science Iii	BSCD3704	BOW304/ BSC304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Building Science Ii	BSCR2604	BOW204/ BSC204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Building Science Iii	BSCR3704	BOW304/ BSC304	Pass 50% of 2st year prescribed modules

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Quantiy Surveying and Construction Management	Building Contracts Law	CCMD3704	BKR304/ CCM304	NCS, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Building Contracts Law	CCMR3704	BKR304/ CCM304	NCS, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Construction Contracts, Procedure and Procurement	CCPC7901	CCP702	Hons level qualification
Quantiy Surveying and Construction Management	Construction Finance Iii	CFND3704	CFN304/ CFN304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Construction Finance Iv	CFND6804	KOF404/ CFN404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Construction Finance Iv	CFND6804	KOF404/ CFN404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Construction Finance Iii	CFNR3704	CFN304/ CFN304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Construction Finance Iv	CFNR6804	KOF404/ CFN404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Construction Finance Iv	CFNR6804	KOF404/ CFN404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Construction and Agricultural Engineering	CINC7901	CIN702	Hons level qualification
Quantiy Surveying and Construction Management	Construction Economics I	COED1504	BOE104/ COE104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Construction Economics Ii	COED2604	BOE204/ COE204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Construction Economics Iii	COED3704	BOE304/ COE304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Building Economics Iv	COED6804	BOE404/ COE404	BSc QS
Quantiy Surveying and Construction Management	Construction Economics I	COER1504	BOE104/ COE104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Construction Economics Ii	COER2604	BOE204/ COE204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Construction Economics Iii	COER3704	BOE304/ COE304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Building Economics Iv	COER6804	BOE404/ COE404	BSc QS
Quantiy Surveying and Construction Management	Construction Science Ii	CSCD2604	KWE204/ CSC204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Construction Science Iii	CSCD3704	KWE304/ CSC304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Construction Science Ii	CSCD6803	KWE404/ CSC404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Construction Science Ii	CSCR2604	KWE204/ CSC204	Pass 50% of 1st year prescribed modules

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Quantiy Surveying and Construction Management	Construction Science Iii	CSCR3704	KWE304/ CSC304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Construction Science Ii	CSCR6803	KWE404/ CSC404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Descriptive Construction Project	DCPD3704	DCP304/ DCP304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Construction Project	DCPR3704	DCP304/ DCP304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Dispute Resolution	DPRP7902	DPR702	Hons level qualification
Quantiy Surveying and Construction Management	Descriptive Quantification I	DQFD1504	BKF104/ DQF 104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Descriptive Quantification Ii	DQFD2604	BKF204/ DQF204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iii	DQFD3704	BKF304/ DQF304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iii	DQFD3704	BKF304/ DQF304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iv	DQFD6804	BKF404/ DQF404	BSc QS
Quantiy Surveying and Construction Management	Descriptive Quantification I	DQFR1504	BKF104/ DQF 104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Descriptive Quantification Ii	DQFR2604	BKF204/ DQF204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iii	DQFR3704	BKF304/ DQF304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iii	DQFR3704	BKF304/ DQF304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Iv	DQFR6804	BKF404/ DQF404	BSc QS
Quantiy Surveying and Construction Management	Descriptive Quantification Project	DQSD3704	BKS302/ DQS303	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Descriptive Quantification Project	DQSR3704	BKS302/ DQS302	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Engineering Science	EGSD1504	IGW104/ EGS104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Engineering Science	EGSR1504	IGW104/ EGS104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Property Development	ENDC7902	END704	Hons level qualification
Quantiy Surveying and Construction Management	Research Essay: Property Development	ENDR7900	END792	INDR7902
Quantiy Surveying and Construction Management	Property Valuation and Management	ENWV7904	ENW793	Hons level qualification

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Quantiy Surveying and Construction Management	Introduction To Research	INDR7902		Hons level qualification
Quantiy Surveying and Construction Management	Integrated Project Iv	INPD6803	GIP404/ INP404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Integrated Project Iv	INPR6803	GIP404/ INP404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Integrated Project Management Pro	IPMP7904		Hons level qualification
Quantiy Surveying and Construction Management	Construction Science Ii	KWEG2612		Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Life Cycle Cost, Facilities Evaluation and Management	LSFP7902	LSF793	Hons level qualification
Quantiy Surveying and Construction Management	Management Of Information and Communication Systems Iv	MCID6808	BKI404/ MCI404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Management Of Information and Communication Systems Iv	MCIR6808	BKI404/ MCI404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Property Development Economics I	PDED1504	END104/ PDE104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Property Development Economics Ii	PDED2604	END204/ PDE204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Property Development Economics Iii	PDED3704	END304/ PDE304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Property Development Economics Iv	PDED6802	END404/ PDE404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Property Development Economics I	PDER1504	END104/ PDE104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Property Development Economics Ii	PDER2604	END204/ PDE204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Property Development Economics Iii	PDER3704	END304/ PDE304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Property Development Economics Iv	PDER6802	END404/ PDE404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Property Facilities Management	PFMD6804	EFB404/ PFM404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Property Facilities Management	PFMR6804	EFB404/ PFM404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Professional Practice	PPRD6802	BPK404/ PPR404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Professional Practice	PPRR6802	BPK404/ PPR404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Professional Practice	PPYC7901	PPY702	Hons level qualification
Quantiy Surveying and Construction Management	Production and Operational Management I	PQMD1504	POB104/ PQM104	NSC, AP=34 Math=L5 *1=L5

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Quantiy Surveying and Construction Management	Production and Operational Management II	PQMD2604	POB204/ PQM204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management III	PQMD3704	POB304/ PQM304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management Iii	PQMD3704	POB304/ PQM305	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management Iii	PQMD6804	POB404/ PQM404	BSc CM
Quantiy Surveying and Construction Management	Production and Operational Management I	PQMR1504	POB104/ PQM104	NSC, AP=34 Math=L5 *1=L5
Quantiy Surveying and Construction Management	Production and Operational Management Ii	PQMR2604	POB204/ PQM204	Pass 50% of 1st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management Iii	PQMR3704	POB304/ PQM304	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management Iii	PQMR3704	POB304/ PQM305	Pass 50% of 2st year prescribed modules
Quantiy Surveying and Construction Management	Production and Operational Management Iii	PQMR6804	POB404/ PQM404	BSc CM
Quantiy Surveying and Construction Management	Construction Management Thesis	PQMR8900	KOB700	BSc in relevant discipline, Selection MSc, Permission from ADH
Quantiy Surveying and Construction Management	Construction Management Thesis	PQMR9100	KOB900	MSc Selection PhD or DSc, Permission from ADH
Quantiy Surveying and Construction Management	Property Valuation Practice	PVPD6804	EWP404/ PVP404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Property Valuation Practice	PVPR6804	EWP404/ PVP404	BSc CM &/OR BSc QS
Quantiy Surveying and Construction Management	Quantiy Surveying Thesis	DQFR8900	BOR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Quantiy Surveying and Construction Management	Quantiy Surveying Thesis	DQFR9100	BOR900	MSc Selection PhD or DSc, Permission from ADH
Quantiy Surveying and Construction Management	Applied Project Management	TRBP7904	TRB704	Hons level qualification
Soil, Crop and Climate Sciences	Chemical principles in agriculture	AGRI1534	LWL134	NCS Mathematics level 3 AP>30, OR Mathematic Literacy level 7 AP>32 OR Bagric-ext or UPPAgric first year succesfull completed
Soil, Crop and Climate Sciences	Chemical principles in agriculture: Practical	AGRI1551	LWC151	AGRI1512&AGRI1521
Soil, Crop and Climate Sciences	Physical and mechanisel principles in agriculture	AGRI1554	LWL154	NCS Mathematics level 3 AP>30, OR Mathematic Literacy level 7 AP>32 OR Bagric-ext or UPPAgric first yer succesfull completed
Soil, Crop and Climate Sciences	Fundamentals of agrometeorology	CLIM2614	LWR214	SCCS1624 or PHYS1514 or PHYS1534 or concurrently
Soil, Crop and Climate Sciences	Agrometeorology for farming systems	CLIM2624	LWR224	SCCS1624 or Min (CLIM2614)
Soil, Crop and Climate Sciences	Climate data analysis for agrometeorological services	CLIM3714	LWR314	CLIM2614 or CLIM2624

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Soil, Crop and Climate Sciences	Climate change and variability	CLIM3724	LWR324	None
Soil, Crop and Climate Sciences	Operational Agrometeorology	CLIM4814	LWR414	CLIM2614
Soil, Crop and Climate Sciences	Micrometeorology	CLIM4824	LWR424	CLIM2614
Soil, Crop and Climate Sciences	Physical and dynamical Meteorology	CLIM4834	LWR434	CLIM2614
Soil, Crop and Climate Sciences	Synoptic Meteorology	CLIM4844	LWR444	CLIM2614
Soil, Crop and Climate Sciences	Operational Agrometeorology	CLIM6814	LWR414	Selection for honours
Soil, Crop and Climate Sciences	Simulating biophysical interactions	CLIM6824	LWR424	CLIM2614
Soil, Crop and Climate Sciences	Physics and dynamics of the atmosphere	CLIM6834	LWR434	Selection for honours
Soil, Crop and Climate Sciences	Synoptic Meteorology	CLIM6844	LWR444	Selection for honours
Soil, Crop and Climate Sciences	Concepts in crop production	CROP2614	AGR214	SCCS124
Soil, Crop and Climate Sciences	Winter grain, industrial and diverse crops	CROP2624	AGR224	CROP2614 or concurrently
Soil, Crop and Climate Sciences	Summer grain, oil and protein-rich crops	CROP3714	AGR314	CROP2614 or concurrently
Soil, Crop and Climate Sciences	Vegetable crops	CROP3724	HRT324	CROP2624 or concurrently
Soil, Crop and Climate Sciences	Research Project	IRRI6808	BSB693	BAgric / Selection
Soil, Crop and Climate Sciences	Evaluation of soil and water for irrigation suitability	IRRI6816	BSB601	BAgric / Selection
Soil, Crop and Climate Sciences	Evaluation of soil fertility and control	IRRI6826	BSB602	BAgric / Selection
Soil, Crop and Climate Sciences	Irrigation design	IRRI6846	BSB603	BAgric / Selection
Soil, Crop and Climate Sciences	Introduction to soil, crop and climate sciences	SCCS1624	GKG124	None
Soil, Crop and Climate Sciences	Soil classification, evaluation, and land use planning	SOIL2614	GKD314	SCCS1624
Soil, Crop and Climate Sciences	Sustainable soil and water management	SOIL2624	GKD324	SCCS1624
Soil, Crop and Climate Sciences	Soil fertility and fertilization	SOIL3714	GKD314	SCCS1624
Soil, Crop and Climate Sciences	Soil contaminants and management	SOIL3724	GKD324	SCCS1624
Soil, Crop and Climate Sciences	Land evaluation	SOIL794	GKD708	None
Soil, Crop and Climate Sciences	Agrometeorology Dissertation	CLIM8900	LWR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Soil, Crop and Climate Sciences	Agrometeorology Thesis	CLIM9100	LWR900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Soil, Crop and Climate Sciences	Agronomy Dissertation	CROP8900	AGR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Soil, Crop and Climate Sciences	Agronomy Thesis	CROP9100	AGR900	MSc or MScAgric Selection PhD or DSc, Permission from ADH
Soil, Crop and Climate Sciences	Irrigation Management Dissertation	IRRI8900	BSB700	BSc in relevant discipline, Selection MSc, Permission from ADH
Soil, Crop and Climate Sciences	Irrigation Management Thesis	IRRI9100	BSB900	MSc Selection PhD, Permission from ADH
Soil, Crop and Climate Sciences	Soil Science Dissertation	SOIL8900	GKD700	BSc in relevant discipline, Selection MSc, Permission from ADH
Soil, Crop and Climate Sciences	Soil Science Thesis	SOIL9100	GKD900	MSc or MScAgric Selection PhD or DSc, Permission from ADH

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Urban and Regional Planning	Research in Economics for Planners	URRE6814	EVB614	Applicable B degree
Urban and Regional Planning	Research in Economics for Planners	URRE6824	EVB624	Applicable B degree
Urban and Regionl Planning	Basic Practice in Urban and Regional Planning	URBP6806	GSP604 & GCP604	Applicable B degree
Urban and Regionl Planning	Dissertation Proposal in Urban and Regional Planning	URDP7912	BNA712	Applicable Honours degree
Urban and Regionl Planning	Dissertation Proposal in Urban and Regional Planning	URDP7922	BNA712	Applicable Honours degree
Urban and Regionl Planning	Research in Environmental Planning	UREP6814	BGO614	Applicable B degree
Urban and Regionl Planning	Research in Environmental Planning	UREP6824	BGO624	Applicable B degree
Urban and Regionl Planning	Futurology for Planners	URFP7912	TVB752	Applicable Honours degree
Urban and Regionl Planning	Futurology for Planners	URFP7922	TVB752	Applicable Honours degree
Urban and Regionl Planning	Geographic Information Systems for Planners	URGI7904	GIB704	Applicable Honours degree
Urban and Regionl Planning	Housing for Planners	URHS7913	BEH752	Applicable Honours degree
Urban and Regionl Planning	Housing for Planners	URHS7923	BEH752	Applicable Honours degree
Urban and Regionl Planning	Human Settlements Dissertation	URHS8900	HSS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Urban and Regionl Planning	Housing	URHS9100	LHD900	MSc Selection PhD or DSc, Permission from ADH
Urban and Regionl Planning	Integrated Development Planning	URID7912	GOB752	Applicable Honours degree
Urban and Regionl Planning	Integrated Development Planning	URID7922	GOB752	Applicable Honours degree
Urban and Regionl Planning	Land Use Management	URLM6814	BGR752	Applicable B degree
Urban and Regionl Planning	Land Use Management	URLM6824	BGR752	Applicable B degree
Urban and Regionl Planning	Planning Management	URLM7912	BGR752	Applicable Honours degree
Urban and Regionl Planning	Planning Management	URLM7922	BGR752	Applicable Honours degree
Urban and Regionl Planning	Housing Thesis	URHS9100	SSS900	MSc Selection PhD, Permission from ADH
Urban and Regionl Planning	Extended Research Essay	URMD7900	SSS791	Applicable Honours degree
Urban and Regionl Planning	Urban and Regional Planning Dissertation	URMD8900	SSS700	BSc in relevant discipline, Selection MSc, Permission from ADH
Urban and Regionl Planning	Professional Practice in Urban and Regional Planning	URPP7914	PPB752	Applicable Honours degree
Urban and Regionl Planning	Professional Practice in Urban and Regional Planning	URPP7924	PPB752	Applicable Honours degree
Urban and Regionl Planning	Research in Theory of Planning	URPT6804	BTR605/604	Applicable B degree
Urban and Regionl Planning	Urban and Regional Planning Thesis	URPD9100	SSS900	MSc Selection PhD, Permission from ADH
Urban and Regionl Planning	Planning of Rural Areas	URRA7912	LGB752	Applicable Honours degree
Urban and Regionl Planning	Planning of Rural Areas	URRA7922	LGB752	Applicable Honours degree
Urban and Regionl Planning	Research Methodologies for Planners	URRM7914	BMK793	Applicable Honours degree
Urban and Regionl Planning	Research Methodologies for Planners	URRM7924	BMK793	Applicable Honours degree

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Urban and Regionl Planning	Applied Regional Planning Project	URRP7906	TSP793	Applicable Honours degree
Urban and Regionl Planning	Research in Regional Planning Theory	URRT6805	ATS691	Applicable B degree
Urban and Regionl Planning	Research in Socio-Cultural Aspects in Planning	URSC6814	ATB622	Applicable B degree
Urban and Regionl Planning	Research in Socio-Cultural Aspects in Planning	URSC6824	ATB622	Applicable B degree
Urban and Regionl Planning	Planning for Tourism	URTD7912	RBT752	Applicable Honours degree
Urban and Regionl Planning	Planning for Tourism	URTD7922	RBT752	Applicable Honours degree
Urban and Regionl Planning	Transportation	URTP7912	VVB752	Applicable Honours degree
Urban and Regionl Planning	Transportation	URTP7922	VVB752	Applicable Honours degree
Urban and Regionl Planning	Urban Research Project	URUP7906	SBF793	Applicable Honours degree
Urban and Regionl Planning	Research in Urban Development Theory	URUT6804	UDT604	Applicable B degree
Urban and Regionl Planning	Urban Geography	URUT7912	GBE752	Applicable Honours degree
Urban and Regionl Planning	Urban Geography	URUT7922	GBE752	Applicable Honours degree
Urban and Regionl Planning	Extended Research Essay		SSS793	Applicable Honours degree
Zoology and Entomology	Introduction to Morphology, Anatomy and Bio-ecology of insects, as well as Agriculturally Important Insect Pests and Control Measures (Agricultural Service Module)	ENTO2614	ENT114	Only BAgric + BSc Agric
Zoology and Entomology	Functional Morphology and Anatomy, Classification and Identification and Evolutionary Biology of Insects	ENTO2616	ENT216	BLGY 1513; BLGY1663 Only BSc
Zoology and Entomology	Ecophysiology of Insects	ENTO2626	ENT226	BLGY1513; BLGY1663; ENT2616
Zoology and Entomology	Advanced Insect Ecology	ENTO3714	ENT314	ENTO2616 + ENTO2626
Zoology and Entomology	Applied Insect Pest Management	ENTO3724	ENT324	ENTO2626 + ENTO3714
Zoology and Entomology	Advanced Medical, Veterinary and Forensic Entomology	ENTO3734	ENT334	ENTO 2616 + ENTO2626
Zoology and Entomology	Applied Insect Biochemistry and Pharmacology	ENTO3744	ENT344	ENTO 2626 + ENTO3714
Zoology and Entomology	Agricultural Entomology	ENTO3754	ENT354	ENTO 2616 + ENTO2626
Zoology and Entomology	Research project	ENTO6808	ENT692	Selection BScHon
Zoology and Entomology	Quantitative Ecology	ENTO6822	ENT622	Selection BScHon
Zoology and Entomology	Biodiversity, Evolution & Biogeography	ENTO6832	ENT632	Selection BScHon
Zoology and Entomology	The Environment	ENTO6842	ENT642	Selection BScHon
Zoology and Entomology	Insect - Plant Interactions	ENTO6854	ENT654	Selection BScHon
Zoology and Entomology	Medical and Veterinary Entomology	ENTO6864	ENT664	Selection BScHon
Zoology and Entomology	Forensic Entomology	ENTO6874	ENT674	Selection BScHon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Zoology and Entomology	Pest Management	ENTO6884	ENT684	Selection BScHon
Zoology and Entomology	Capita Selecta in Entomology	ENTO6894	ENT694	Selection BScHon
Zoology and Entomology	Entomology Dissertation	ENTO8900	ENT700	BSc in relevant discipline, Selection MSc, Permission from ADH
Zoology and Entomology	Entomology Thesis	ENTO9100	ENT900	MSc Selection PhD or DSc, Permission from ADH
Zoology and Entomology	Animals of medical and veterinary importance	ZLGY 2616	DRK216	BLGY1513 & BLGY1663
Zoology and Entomology	Vertebrate Life and Evolution	ZLGY2626	DRK226	ZLGY2616
Zoology and Entomology	Marine and Freshwater Ecology	ZLGY3714	DRK314	ZLGY2626
Zoology and Entomology	Life strategies in Arid Environments	ZLGY3724	DRK324	ZLGY2626
Zoology and Entomology	Conservation Ecology	ZLGY3734	DRK334	ZLGY2626
Zoology and Entomology	Animal behaviour	ZLGY3744	DRK344	ZLGY2626
Zoology and Entomology	Research Project	ZLGY6808	DRK692	Selection BScHons
Zoology and Entomology	Research Techniques, Scientific Methodology and Scientific Communication	ZLGY6814	DRK614	Selection BScHons
Zoology and Entomology	Quantitative Ecology	ZLGY6822	DRK622	Selection BScHons
Zoology and Entomology	Biodiversity (Evolution & Biogeography	ZLGY6832	DRK632	Selection BScHons
Zoology and Entomology	Wetland Ecology	ZLGY6834	DRK634	Selection BScHons
Zoology and Entomology	The Environment	ZLGY6842	DRK642	Selection BScHons
Zoology and Entomology	Veterinary Ectoparasitology	ZLGY6854	DRK654	Selection BScHons
Zoology and Entomology	Animal Behaviour / Veterinary Endoparasitology	ZLGY6864	DRK664	Selection BScHons
Zoology and Entomology	Aquatic Parasitology	ZLGY6874	DRK674	Selection BScHons
Zoology and Entomology	African Ornithology / Immunology	ZLGY6884	DRK684	Selection BScHons
Zoology and Entomology	Capita selecta in Zoology	ZLGY6894	DRK694	Selection BScHons
Zoology and Entomology	Zoology Dissertation	ZLGY8900	DRK700	BSc in relevant discipline, Selection MSc, Permission from ADH
Zoology and Entomology	Zoology Thesis	ZLGY9100	DRK900	MSc Selection PhD or DSc, Permission from ADH
Zoology en Entomology	Introduction to Zoology and Entomology	BLGY1663	BLG144	BLGY1513
Zoology en Entomology	Research Techniques, Scientific Methodology and Scientific Communication	ENTO6814	ENT614	Selection BScHons

EQUIVALENT CODES FROM SIX DIGITS TO EIGHT DIGITS

OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE
ABS204/ABS204	ABSD2604	BKS302/DQS303	DQSD3704	BSB700	IRRI8900	DAF601	ANIP6816	DVL464	ANIN4864	FSK314	PHYS3714	GDF334	FORS3734
ABS204/ABS204	ABSR2604	BLG114	BLGY1513	BSB900	IRRI9100	DAF602	ANIP6824	DVL601	ANIN6815	FSK324	PHYS3724	GDF614	FORG6834
ABS304/ABS304	ABSD3704	BLG124	BLGY1623	BTG700	MBBT8900	DAF602	ANIP6824	DVL602	ANIN6825	FSK332	PHYS3732	GDF614	FORG6844
ABS304/ABS304	ABSR3704	BLG144	BLGY1643	BTG900	MBBT9100	DAF603	ANIP6814	DVL603	ANIN6864	FSK342	PHYS3742	GDF624	FORG6854
ATW216	ACSF2716	BLG144	BLGY1663	BTR605/604	URPT6804	DCP304/DCP304	DCPD3704	EFB404/PFM404	PFMD6804	FSK352	PHYS3752	GDF624	FORG6864
ATW246	ACSF2726	BLGY1683		CCP702	CCPC7901	DCP304/DCP304	DCPR3704	EFB404/PFM404	PFMR6804	FSK362	PHYS3762	GDF674	FORG6874
ADS 116	SACP 1716	BMK793 BMK614	URRM7914	CEM112	CHEM1512	DIM601		END104/PDE104	PDED1504	FSK372	PHYA3772	GDF674	FORG6884
ADS 116	SACP 1726	BMK793/ BMK624	URRM7924	CEM114	CHEM1513+ CHEM1551	DIM602		END104/PDE104	PDER1504	FSK382	PHYA3782	GDF686	FORG6816
ADS 126	SARD 1716					DIM603		END204/PDE204	PDED2604	FSK601	PHYS6814	GDF692	FORG6808
ADS 126	SARD 1726	BNA712/ BNA612	URDP7912	CEM124	CHEM1624	DIM604		END204/PDE204	PDER2604	FSK601	PHYS6824	GDF693	FORG6814
ADS 136	SALP 1716	BNA712/ BNA622	URDP7922	CEM132	CHEM1643	DIM605		END304/PDE304	PDED3704	FSK602	PHYS6834	GDF693	FORG6824
ADS 136	SALP 1726	BOC216	BOCB2616	CEM144	CHEM1644	DIM606		END304/PDE304	PDER3704	FSK602	PHYS6844	GDF700	FORS8900
ADS 146	SAAM 1716	BOC226	BOCE2626	CEM214	CHEM2613+ CHEM2611	DIM607		END404/PDE404	PDED6802	FSK603	PHYR6814	GDF900	FORS9100
ADS 146	SAAM 1726	BOC314	BOCM3714			DIM608		END404/PDE404	PDER6802	FSK603	PHYR6824	GDF920	FORC9100
ADS 226	SACT 1716	BOC334/BOC384	BOCP3724	CEM224	CHEM2623+ CHEM2621	DIM701	DIMH7910	END704	ENDC7902	FSK604	PHYS6854	GEN216	GENE2616
ADS 226	SACT 1726	BOC324/BOC374	BOCE3714	CEM232	CHEM2633+ CHEM2631	DIM702	DIMP7900	END792	ENDR7900	FSK604	PHYS6864	GEN246	GENE2626
AGB605	AGBS6824	BOC344	BOCS3724			DIM703	DIMG7900	END793	ANDC7902	FSK605	PHYS6874	GEN324	GENE3724
AGR214	CROP2614	BOC614	BOCT6814	CEM242	CHEM2643+ CHEM2641	DIM704	DIME7910	ENT114	ENTO2614	FSK605	PHYS6884	GEN334	FORS3744
AGR224	CROP2624	BOC622	BOCO6822			DIM705	DIMM7910	ENT216	ENTO2616	FSK606	PHYI6874	GEN344	GENE3744
AGR314	CROP3714	BOC624	BOCS6824	CEM314	CHEM3713+ CHEM3711	DIM706	DIMI7910	ENT226	ENTO2626	FSK606	PHYI6884	GEN354	GENE3734
AGR700	CROP8900	BOC634	BOCE6814	CEM324	CHEM3723+ CHEM3721	DIM707	DIMR7910	ENT314	ENTO3714	FSK607	PHYI6814	GEN614	GENC6814
AGR900	CROP9100	BOC654	BOCB6824			DIM791	DIMR7900	ENT324	ENTO3724	FSK607	PHYI6824	GEN614	GENC6824
ARG204/ARG204	ARGD2604	BOC674	BOCM6814	CEM334	CHEM3733+ CHEM3731	DIM900	DSMT9100	ENT334	ENTO3734	FSK608	PHYE6814	GEN624	GENM6814
ARG204/ARG204	ARGR2604	BOC692	BOCR6828			DMT214	DATA2614	ENT344	ENTO3744	FSK608	PHYE6824	GEN624	GENM6824
ARG700	ARCH8900	BOC693	BOCL6826	CEM344	CHEM3744	DMT224	DATA2624	ENT354	ENTO3754	FSK609	PHYI6834	GEN644	GENS6814
ARG900	ARCH9100	BOC700	BOCM8900	CEM614	CHEM6813+ CHEM6811	DMT322	DATA3722	ENT614	ENTO6814	FSK609	PHYI6844	GEN644	GENS6824
AST251	PHYA2613	BOC900	BOCD9100/BOCT9	CEM624	CHEM6823+ CHEM6821	DPR702	DPRP7902	ENT622	ENTO6822	FSK610	PHYI6854	GEN654	GENP6814
AST252	PHYA2623	BOE104/COE104	COED1504			DRK216	ZLGY 2616	ENT632	ENTO6832	FSK610	PHYI6864	GEN654	GENP6824
ATB622	URSC6814	BOE104/COE104	COER1504	CEM634	CHEM6833+ CHEM6831	DRK226	ZLGY2626	ENT642	ENTO6842	FSK611	PHYE6834	GEN674	GENE6834
ATB622	URSC6824	BOE204/COE204	COED2604			DRK314	ZLGY3714	ENT654	ENTO6854	FSK611	PHYE6844	GEN674	GENE6844
ATS691/ ATS624	URRT6805	BOE204/COE204	COER2604	CEM644	CHEM6843+ CHEM6841	DRK324	ZLGY3724	ENT664	ENTO6864	FSK612	PHYA6814	GEN686	GENE6816
BCC214	BOCH2614	BOE304/COE304	COED3704			DRK334	ZLGY3734	ENT674	ENTO6874	FSK612	PHYA6824	GEN692	GENE6808
BEH752/ BEH612	URHS7913	BOE304/COE304	COER3704	CEM654	CHEM6853+ CHEM6851	DRK344	ZLGY3744	ENT684	ENTO6884	FSK613	PHYA6854	GEN693	GENE6814
BEH752/ BEH612	URHS7923	BOE404/COE404	COED6804			DRK614	ZLGY6814	ENT692	ENTO6808	FSK613	PHYA6864	GEN693	GENE6824
BES324	CNCS2624	BOE404/COE404	COER6804	CEM664	CHEM6863+ CHEM6831	DRK622	ZLGY6822	ENT694	ENTO6894	FSK613	PHYC6814	GEN700	GENG8900
BES324	CNCS2624	BOE704	BOEC7902	CEM674	CHEM6873+ CHEM6871	DRK632	ZLGY6832	ENT700	ENTO8900	FSK613	PHYC6824	GEN720	FORC8900
BGO614	UREP6814	BOR700	QTSV8900			DRK634	ZLGY6834	ENT900	ENTO9100	FSK614	PHYA6834	GEN727	FORE8900
BGO624	UREP6824	BOR900	QTSV9100	CEM684	CHEM6883+ CHEM6881	DRK642	ZLGY6842	ENW793	ENWV7904	FSK614	PHYA6844	GEN731	FORG8900
BGR752	URLM6814	BOW106	CONS1606			DRK654	ZLGY6854	EVB614/ EVB691	URRE6814	FSK614	PHYC6834	GEN799	FORI8900
BGR752	URLM6824	BOW204	COQS2604	CEM700	CHEM8900	DRK664	ZLGY6864	EVB624	URRE6824	FSK614	PHYC6844	GEN799	GENI8900
BGR752	URLM7912	BOW204/BSC204	BCSD2604	CEM900	CHEM9100	DRK674	ZLGY6874	EWP404/PVP404	PVPD6804	FSK625	PHYA6800	GEN900	GENG9100
BGR752	URLM7922	BOW204/BSC204	BSCR2604	CFN304/CFN304	CFND3704	DRK684	ZLGY6884	EWP404/PVP404	PVPR6804	FSK692	PHYA6808	GEN927	FORE9100
BKF104/DQF 104	DQFD1504	BOW206	CONS2606	CFN304/CFN304	CFNR3704	DRK692	ZLGY6808	FSK112	PHYS1512	FSK692	PHYS6808	GEN931	FORG9100
BKF104/DQF 104	DQFR1504	BOW304	COQS3704	CIN702	CINC7901	DRK694	ZLGY6894	FSK114	PHYS1514	FSK700	PHYA8900	GEO114	GEOP1514
BKF204/DQF204	DQFD2604	BOW304/BSC304	BSCD3704	CIN793	AINC7901	DRK700	ZLGY8900	FSK134	PHYS1534	FSK700	PHYS8900	GEO124	GEOH1624
BKF204/DQF204	DQFR2604	BOW304/BSC304	BSCR3704	CISE2613	CSIE2613	DRK900	ZLGY9100	FSK143	PHYS1543	FSK725	PHYA7900	GEO214	GEOH2614
BKF304/DQF304	DQFD3704	BOW306	CONS3706	CISE2613	CSIE2613	DTL224	ANIB2624	FSK154	PHYA1554	FSK791	PHYA7990	GEO224	GEOP2624
BKF304/DQF304	DQFD3704	BOW608	CONS6808	CISE3614	CSIE3614	DTL314	ANIB3714	FSK124	PHYS1624	FSK900	PHYA9100	GEO234	GEOP2614
BKF304/DQF304	DQFR3704	BOW708	CONS7908	CISE3614	CSIE3614	DTL324	ANIB3724	FSK144	PHYS1644	FSK900	PHYS9100	GEO314	GEOH3714
BKF304/DQF304	DQFR3704	BPK404/PPR404	PPRD6802	CISE3724	CSIE3724	DTL414	ANIB4814	FSK144	PHYS1644	GBE752	URUT7912	GEO324	GEOP3724
BKF404/DQF404	DQFD6804	BPK404/PPR404	PPRR6802	CISE3724	CSIE3724	DTL424	ANIB4824	FSK164	PHYA1664	GBE752	URUT7922	GEO334	GEOP3714
BKF404/DQF404	DQFR6804	BRS111	CSIL1511	CMS700	CNCS8900	DTL601	ANIB6814	FSK214	PHYS2614	GCE700	GECE8900	GEO344	GEOH3724
BKI404/MCI404	MCID6808	BRS121	CSIL1521	CMS900	CNCS9100	DTL602	ANIB6824	FSK224	PHYS2624	GCE900	GECE9100	GEO606	GEOG6806
BKI404/MCI404	MCIR6808	BSB601	IRRI6816	DAF314	ANIP3714	DTL603	ANIB6826	FSK232	PHYS2632	GDF214	FORS2616	GEO616	GEOF6816
BKR304/CCM304	CCMD3704	BSB602	IRRI6826	DAF324	ANIP3724	DVL334	ANIN3734	FSK242	PHYS2642	GDF224	FORS2626	GEO692	GEOR6808
BKR304/CCM304	CCMR3704	BSB603	IRRI6846	DAF414	ANIP4814	DVL344	ANIN3744	FSK254	PHYS2654	GDF314	FORS3714	GEO700	ENVR8900
BKS302/DQS302	DQSR3704	BSB693	IRRI6808	DAF424	ANIP4824	DVL434	ANIN4834	FSK264	PHYS2664	GDF324	FORS3724	GEO700	GEOR8900

OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE	OLD CODE	NEW CODE
GEO700	GEOR8900	GLG626	GLGY6826	HDK603	CNST4834	LEK224	AGEC2624	MCB224	MCBH2624	New	CHEM1623	PLK224 + PLK262/ PLK226	BTNY2626
GEO900	ENVR9100	GLG636	GLGY6836	HDK603	CNST4834	LEK314	AGEC3714	MEM700	ENMT8900	New	BCIS1513	PLK302	BTNY3702
GEO900	GEOR9100	GLG643	GLGY6843	HDK603	CNST4844	LEK324	AGEC3724	MEM900	ENMT9100	New	BCIS1513	PLK314	BTNY3714
GEO900	GEOR9100	GLG646	GLGY6846	HDK603	CNST4844	LEK334	AGEC3734	MKB216	MCBP2616	New	BCIS1623	PLK324	BTNY3724
GGF626	ENVG6826	GLG653	GLGY6853	HDK604	CNST4854	LEK344	AGEC3744	MKB226	MCBP2626	New	BCIS1623	PLK334	BTNY3734
GGF636	GEOP6816	GLG656	GLGY6856	HDK604	CNST4854	LEK361	AGEC3721	MKB314	MCBG3714	New	BCIS2614	PLK344	BTNY3744
GGF656	GISR6826	GLG663	GLGY6863	HDK604	CNST4864	LEK414	AGEC4814	MKB324	MCBM3724	New	BCIS2614	PLK354	BTNY3754
GGH636	GEOH6816	GLG673	GLGY6873	HDK604	CNST4864	LEK421	AGEC4821	MKB334		New	BCIS2624	PLK614	BTNY6814
GGH666	ENVG6846	GLG683	GLGY6883	HDK606	CNCS4814	LEK424	AGEC4824	MKB344	MCBP3724	New	BCIS2624	PLK624	BTNY6824
GGS614	GENH6814	GLG696	GLGY6896	HDK606	CNCS4814	LEK434	AGEC4834	MKB364	MCBC3724	New	BCIS3714	PLK634	BTNY6834
GGS614	GENH6824	GLG700	GLGE8900	HDK606	CNCS4824	LEK444	AGEC4844	MKB614	MCBT6814	New	BCIS3714	PLK644	BTNY6844
GGS634	GENB6814	GLG700	GLGY8900	HDK606	CNCS4824	LEK601	AGEC6814	MKB622	MCBO6822	New	FORC3814	PLK654	BTNY6854
GGS634	GENB6824	GLG711	GLGA7913	HDK692	CNCS4809	LEK602	AGEC6834	MKB622	MCNO6822	New	FORC6824	PLK664	BTNY6864
GGS700	GENH8900	GLG711	GLGA7923	HDK692	CNCS4809	LEK603	AGEC6854	MKB634	MCBD6824	New	FORI9100	PLK674	BTNY6874
GGS900	GENH9100	GLG712	GLGA7933	HRT324	CROP3724	LEK604	AGEC6874	MKB654	MCBP6814	New	FORS6808	PLK684	BTNY6884
GHR611	GEOH6815	GLG712	GLGA7943	HSS700	URHS8900	LEK605	AGEC6894	MKB674	MCBM6814	New	FORS6814	PLK696	BTNY6806
GHR612	GEOH6835	GLG713	GLGA7953	IGW104/EGS104	EGSD1504	LEK606	AGEC6824	MKB692	MCBR6828	New	FORS6816	PLK698	BTNY6808
GHR613	GEOH6855	GLG713	GLGA7963	IGW104/EGS104	EGSR1504	LEK607	AGEC6844	MKB692	MCBR6828	New	FORS6824	PLK700	BTNY8900
GHR621	GEOH6825	GLG714	GLGA7973	IQM242	IQMQ2622	LEK608	AGEC6864	MKB693	MCBL6826	New	FORS6834	PLK900	BTNY9100
GHR622	GEOH6865	GLG714	GLGA7983	ITR124	CNCS1624	LEK609	AGEC6884	MKB693	MCBL6826	New	FORS6844	PLT424	PLTB3744
GHR628	GEOH6845	GLG715	GLGB7913	ITR134	CNCS1534	LEK610	AGEM6824	MKB694/BTG634	MCBC6814	New	FORS6854	PLT224	PLTB2613
GHR700	GEOH8900	GLG715	GLGB7923	KLE134	CNST1534	LEK611	AGEM6844	MKB700	MCBT8900	New	FORS6864	PLT224	PLTB2623
GHR900	GEOH9100	GLG721	GLGC7913	KLE144	CNST1644	LEK693	AGEC6808	MKB900	MCBT9100	New	FORS6874	PLT314	PLTB3714
GIB704	URGI7904	GLG721	GLGC7923	KLE214	CNST2614	LEK720	AGEC7902	MOB707	ENMT5810	New	FORS6884	PLT324	PLTB3724
GIP404/INP404	INPD6803	GLG722	GLGC7933	KLE334	CNST3734	LEK793	AGEN7902	MOB707	ENMT7910	New	GENI9100	PLT614	PLTB6814
GIP404/INP404	INPR6803	GLG722	GLGC7943	KLE344	CNST3744	LEK900	AGEC9100	MOB708	ENMT5820	New	GEOH6826	PLT624	PLTB4824
GIS224	GISC2624	GLG723	GLGC7953	KOB700	PQMR8900	LGB752	URRA7912	MOB708	ENMT5826	NLB601	WDMT6816	PLT634	PLTB4834
GIS324	GISC3724	GLG723	GLGC7963	KOB900	PQMR9100	LGB752	URRA7922	MOB708	ENMT7920	NLB602	WDMT6836	PLT696	PLTB4806
GIS616	GISC6816	GLG724	GLGC7973	KOF404/CFN404	CFND6804	LHD900	URHS9100	MOB741	IWMT7910	NLB603	WDMT6826	PLT698	PLTB4808
GIS646	GISC3704	GLG724	GLGC7983	KOF404/CFN404	CFND6804	LIM600	LIMG6800	MOB743	ENMT7930	NLB692	WDMT6808	PLT614/PLT414	PLTB4814
GKD214	SOIL2614	GLG725	GLGD7913	KOF404/CFN404	CFNR6804	LIM700	LIMG8900	MOB745	IWMT7950	NLB700	WDMT8900	PLT624	PLTB6824
GKD314	SOIL3714	GLG725	GLGD7923	KOF404/CFN404	CFNR6804	LIM900	LIMG9100	MOB791	ENMT7900	NLB900	WDMT9100	PLT634	PLTB6834
GKD224	SOIL2624	GLG726	GLGD7933	KWE204/CSC204	CSCD2604	LNG224	AGEG2624	MRM700	MRTM8900	NLB900	WDMT9100	PLT644	PLTB6874
GKD324	SOIL3724	GLG726	GLGD7943	KWE204/CSC204	CSCR2604	LNG314	AGEG3714	MRM900	MRTM9100	NLE601	WILD6816	PLT644/PLT654	PLTB4854
GKD700	SOIL8900	GLG731	GLGE7913	KWE304/CSC304	CSCD3704	LNG324	AGEG3724	MTA108	MTDH1508	NLE602	WILD6826	PLT644/PLT654	PLTB6854
GKD708	SOIL7904	GLG731	GLGE7923	KWE304/CSC304	CSCR3704	LNG414	AGEG4814	MTT108	MTDL1508	NLE603	WILD6878	PLT696	PLTB6806
GKD900	SOIL9100	GLG732	GLGE7933	KWE404/CSC404	CSCD6803	LNG424	AGEG4824	MVL 720	SASA 7903	NLE692	WILD6808	PLT698	PLTB6808
GKG124	SCCS1624	GLG732	GLGE7943	KWE404/CSC404	CSCR6803	LSF793	LSFP7902	MVL 721	SARM 7903	NMA622	RMET6822	PLT700	PLTB8900
GLG114	GLGY1614	GLG733	GLGE7953	LBB314	AGMA3714	LWC151	AGRI1551	MVL 723	SAUR 7916	none	PHYA3708	PLT900	PLTB9100
GLG124	GLGY1624	GLG733	GLGE7963	LBB324	AGMA3724	LWL124	AGRI1624	MVL 730	SAEX 7916	none	PHYA6874	PLT999	PLTI9100
GLG202	GLGY2602	GLG734	GLGE7973	LBB334	AGMA3734	LWL134	AGRI1534	MVL 731	SARD 7926	none	PHYA6884	POB104/PQM104	PQMD1504
GLG212	GLGY2612	GLG734	GLGE7983	LBB344	AGMA3744	LWL154	AGRI1554	MVL 732	SATN 7916	OGT106 /	HARC1604	POB104/PQM104	PQMR1504
GLG214	GLGY2614	GLG791	GLGF7910	LBB362	AGMA3762	LWL164	AGRI1664	MVL 733	SACT 7926	OGT106(4)	HARC1604	POB204/PQM204	PQMD2604
GLG222	GLGY2622	GLG900	GLGE9100	LBB601	AGMA6824	LWR214	CLIM2614	MVL 740	SAVA 7926	OGT204	HARC2604	POB204/PQM204	PQMR2604
GLG224	GLGY2624	GLG900	GLGY9100	LBB602	AGMA6814	LWR224	CLIM2624	MVL 741	SAAM 7926	OGT206(4)	HARC2604	POB304/PQM304	PQMD3704
GLG232	GLGY2632	GLG900	MRTH9100	LBB603	AGMA6834	LWR314	CLIM3714	MVL 750	SAFM 7926	OGT304	HARC3704	POB304/PQM304	PQMR3704
GLG242	GLGY2642	GOB752	URID7912	LBB604	AGMA6844	LWR324	CLIM3724	MVL 752	SASM 7926	OGT606	HURB6806	POB304/PQM305	PQMD3704
GLG244	GLGY2644	GOB752	URID7922	LBB605	AGMA6854	LWR414	CLIM6824	MVL 761	SACP 7916	OMA612	DMET6812	POB304/PQM305	PQMR3704
GLG252	GLGY2652	GPB404/APM404	APMD6803	LBB606	AGMA6864	LWR424	CLIM4814	MVL 770	SALP 7916	ONW100	DESN1600	POB404/PQM404	PQMD6804
GLG314	GLGY3714	GPB404/APM404	APMR6803	LBB607	AGMA6884	LWR434	CLIM4824	MVL724	SAPM 7926	ONW200	DESN2600	POB404/PQM404	PQMR6804
GLG324	GLGY3724	GRT104	PTEC1504	LBB609	AGMA6874	LWR444	CLIM4834	MVL791	SASC 7900	ONW300	DESN3700	PPB752	URPP7914
GLG334	GLGY3734	GRT112	TRIG1512	LBB693	AGMA6808	LWR700	CLIM4844	MVL792	SAMD 7900	ONW600	DESN6800	PPB752	URPP7924
GLG344	GLGY3744	GRT122	PHOT1522	LBB700	AGMA8900	LWR900	CLIM9100	MVL793	SAPA 7900	ORH696	ENRH6806	PPG214/PPG224	PPLG2624
GLG354	GLGY3754	GRT204	CDRA2604	LBB900	AGMA9100	MBG214	HMBG2614	NA	IWM5810	ORH698	ENRH6808	PPG324	PPLG3724
GLG364	GLGY3764	GSP604 & GCP604	URBP6806	LEK 700	AGEC8900	MBG314	HMBG3714	NA	IWM5820	ORH700	ENRH8900	PPG334/PPG444	PPLG4844
GLG374	GLGY3774	HDK602	CNST4814	LEK114	AGEC1514	MBG324	HMBG3724	NA	IWMT5826	ORH900	ENRH9100	PPG334/PPG644	PPLG6844
GLG384	GLGY3784	HDK602	CNST4814	LEK124	AGEC1624	MBG334	HMBG3734	NA	WRMT8900	PAK714 /	PARC7904	PPG344	PPLG3744
GLG616	GLGY6816	HDK602	CNST4824	LEK134	AGEC1634	MBG344	HMBG3744	NEC302	CLNS3702	PLK202	BTNY2602	PPG414/PPG314	PPLG3714
GLG623	GLGY6823	HDK602	CNST4824	LEK214	AGEC2614	MCB214	MCBH2614	New	CHEM1513	PLK214 + PLK212/ PLK216	BTNY2616	PPG424/ PPG444	PPLG4824

OLD CODE	NEW CODE
PPG424/PPG334	PPLG3734
PPG434	PPLG4834
PPG496	PPLG4806
PPG498	PPLG4808
PPG624/PPG444	PPLG6824
PPG634	PPLG6834
PPG696	PPLG6806
PPG698	PPLG6808
PPG701	PHEC8900
PPG702	PPLG8900
PPG901	PHEC9100
PPG902	PPLG9100
PPY702	PPYC7901
QALC1510	QALC1513
RBT752	URTD7912
RBT752	URTD7922
RIN104, CISE1606	CSIE1606
RIS114	CSIS1614
RIS124	CSIS1624
RIS124	CSIS1624
RIS134	CSIS1534
RIS134	CSIS1534 CSIS156
RIS144	CSIS1644
RIS154, RIS153	CSIS1553
RIS164	CSIS1664
RIS182	CSIS1683
RIS214	CSIS2614
RIS214	CSIS2614
RIS242	CSIS2642
RIS242	CSIS2642
RIS264	CSIS2664
RIS294	CSIS2634
RIS314	CSIS3714
RIS324	CSIS3724
RIS334	CSIS3734
RIS344	CSIS3744
RIS601	CSIN6813
RIS604	CSII6813
RIS606	CSIM6813
RIS608	CSIC6813
RIS609	CSIE6813
RIS610	CSID6813
RIS612	CSIE6833
RIS613	CSIE6853
RIS614	CSIE6873
RIS615	CSII6833
RIS616	CSIN6833
RIS617	CSIP6813
RIS618	CSII6853
RIS619	CSIP6833
RIS620	CSIP6853
RIS621	CSIP6873
RIS622	CSID6833
RIS623	CSIC6833
RIS624	CSIM6833
RIS625	CSID6853
RIS626	CSIS6813
RIS630	CSIC6853
RIS693	CSIS6806
RIS700	CSIS8900
RIS715	CSIS7915
RIS715	CSIS7925
RIS725	CSIS7935
RIS725	CSIS7945
RIS730	CSIS7955
RIS730	CSIS7965
RIS731	CSIS7975
RIS731	CSIS7985
RIS791	CSIS7910
RIS791	CSIS7920
RIS900	CSIS9100
SBF793/SBF752	URUP7906
SKR791	DDIS7900
SSS700	URMD8900
SSS791	URMD7900
SSS793	
SSS900	URHS9100
SSS900	URPD9100
STS611	STSB6815
STS612	STSM6815
STS613	STSP6815
STS614	STSS6815
STS615	STSF6815
STS616	STSA6815
STS618	STSC6815
STS621	STSF6825
STS622	STSR6825
STS623	STSF6845
STS624	STSM6825
STS625	STSP6825
STS626	STSE6815
STS627	STSF6845
STS628	STSA6825
STS629	STSX6815
STS629	STSX6825
STS692	STSR6808
STS711	STSB7910
STS713	STSP7910
STS714	STSS7910
STS715	STSF7910
STS716	STSA7910
STS718	STSC7910
STS721	STSF7920
STS722	STSR7910
STS723	STSF7940
STS724	STSM7920
STS725	STSP7920
STS726	STSE7910
STS727	STSM7940
STS729	STSX7910
STS729	STSX7920
STS791	STSD7900
STS791	STSR7900
STSM1614	Various
TAR22(0)4	TARC2604
TAR224 /	TARC2604
TAR304	TARC3704
TAR604	TARC6804
TAR70(1)4	ATRE7904
TAR714	ATRE7904
TGW114	MATA1614
TGW124	MATA1624
TGW214	MATA2614
TRB704	TRBP7904
TSK312	CNST3712
TSK312	CNST3712
TSK322	CNST3722
TSK322	CNST3722
TSK424	CNST3754
TSK424	CNST3754
TSP793/ TSP792	URRP7906
TVB752	URFP7912
TVB752	URFP7922
UDT604/ GBE752	URUT6804
VBN108	SCNS1508
VBW124	CNCS1622
VBW124	CNCS1622
VBW312	CNCS3732
VBW312	CNCS3722
VBW324	CNCS3724
VBW324	CNCS3724
VBW332	CNCS3732
VBW332	CNCS3732
VBW344	CNCS3744
VBW344	CNCS3744
VBW601	CNFD4808
VBW601	CNFD4808
VDG408	
VDS214	CNFD2614
VDS224	CNFD2624
VDS322	CNFD1532
VDS344	CNFD3744
VHL900	SADR9100
VKD214	ANIG2614
VKD224	ANIG2624
VKD314	ANIG3714
VKD324	ANIG3724
VKD334	ANIG3734
VKD344	ANIG3744
VKD695	ANIG4805
VKD693	ANIG4805
VKD700	ANIB8900
VKD700	ANIN8900
VKD700	ANIS8900
VKD900	ANIB9100
VKD900	ANIN9100
VKD900	ANIS9100
VVB752	URTP7912
VVB752	URTP7922
VWS212	FSCI2613
VWS222	FSCC2622
VWS224	FSCS2624
VWS232	FSCC2613
VWS314	FSCA3714
VWS324	FSCP3724
VWS334	FSCE4814
VWS344	FSCB3724
VWS414	FSCP4814
VWS424	FSCG4814
VWS434	FSCG4826
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VWS693	FSCR6808
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VWW464	ANIN3764
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WTW745	MATZ7934
WTW745	MATZ7944
WTW746	MATZ7954
WTW746	MATZ7964
WTW792	MATM7910
WTW792	MATM7920
WTW900	MATA9100
WTW900	MATM9100

EQUIVALENT CODES FROM SIX DIGITS TO EIGHT DIGITS

Old code	New code	Module title
BTR704	URPT7904	Basic Town Planning Theory
BSP702	URBP7902	Basic Urban Planning Practice
ISR702	URRP7902	Introduction studies in Regional Planning
BEH704	URHS7904	Housing
RBT702	URTD7902	Tourism and Development
BGR704	URLM7902	Planning Management
GSP702	URAP7902	Advanced Urban Planning Practice
VVB702	URTP7902	Transportation
	URCS7912 / 7922	Capita Selecta in Planning
	URCS7913 / 7923	Capita Selecta in Planning
	URCS7916 / 7926	Capita Selecta in Planning
	URCS7912 / 7922	Capita Selecta in Planning
	URCS7914 / 7924	Capita Selecta in Planning
	URCS7916 / 7926	Capita Selecta in Planning

THE MODULE CONTENT WILL BE PUBLISHED SEPERATELY.