Rule Book 2015

Faculty of Natural and Agricultural Sciences

T: 051 401 2531 natagri@ufs.ac.za www.ufs.ac.za/natagri

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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 2015

UNIVERSITY OF THE FREE STATE
UNIVERSITEIT VAN DIE VRYSTAAT
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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 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 on 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 regulations.

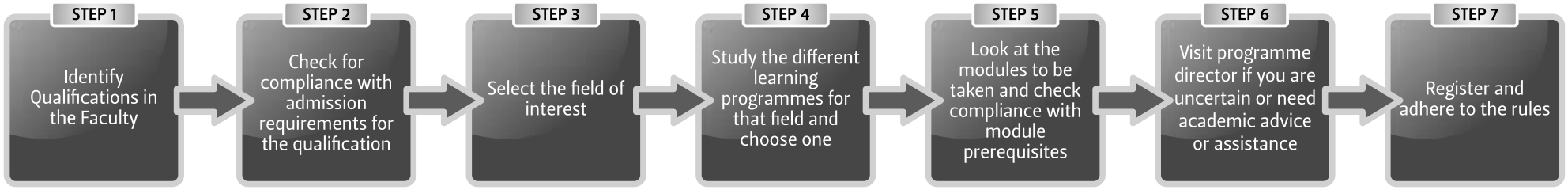
The third section contains module content information:

- 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 Institutional Rules of the UFS 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 contents 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. 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 HONOURS	AGRICULTURE AND BUILDING SCIENCES	MASTER'S AND DOCTORAL DEGREES
NAME	Prof. Neil Heideman	Ms L Damons	Ms Elzmarie Oosthuizen	Ms Meriam Joggom Ms Chantelle Joseph	Ms Epefia Maboa Ms Bertha Motloung	Ms Rebecca Dipyere Ms Mandy Basson
BUILDING	Room 9, Biology Building	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 2322	051 401 3199	051 401 2934	051 401 9271	051401 2943	051 401 2943 / 2722
E-MAIL	dean@ufs.ac.za	VACANT	oosthuizenem@ufs.ac.za	Jogommm@ufs.ac.za	maboaemb@ufs.ac.za	dipyererd@ufs.ac.za bassonmg@ufs.ac.za
WEB ADDRESS	http://www.ufs.ac.za/natagri					

3.1 CONTACT DETAILS: PROGRAMME DIRECTORS – BLOEMFONTEIN CAMPUS

Programme	Architecture	Agricultural Sciences	Agricultural Economics Agricultural Management	Biochemistry	Botany, Plant Breeding, Plant Health Ecology, Plant Pathology, Environmental Rehabilitation	Computer Science, Informatics, Information Technology	Consumer Science	Disaster Management	Environmental Management	Extended and UPP Agricultural Sciences	Genetics, Behavioural Genetics, Human Molecular Biology, Forensic Sciences
Name	Mr Jako Olivier	Prof. Japie van Wyk	Dr Antonie Geyer	Dr Frans O'Neill	Dr Botma Visser	Mr Jaco Marais	Prof. Hester Steyn	Ms Olivia Kunguma	Ms Marinda Avenant	Ms Elzmarie Oosthuizen	Ms Zurika Odendaal
Building	Room 26, ARG111, Architecture Building	Room LG 3. G02, Agriculture Building	Room LG 1.129 Agriculture Building	Room 5, Biotechnology Building	Room134, Biology Building	Room WWG 313, Mathematical Sciences Building	Room LG 9.106, Agriculture Building	Centre for Disaster Management	Room 103 Agriculture Building	Room 10, Biology Building	Room 322 ,Steyn Annex
Telephone Nr	051 401 2332	051 401 2677	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 2776
E-mail	olivierji@ufs.ac.za	vanwykjb@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	odendaalz@ufs.ac.za

Programme	Geography	Geology, Geohydrology	Mathematical Sciences	Mathematical Statistics, Actuarial Science	Microbiology, Microbial Biotechnology	Physics, Chemistry	Quantity Surveying and Construction Management	Sustainable Agriculture	Urban and Regional Planning	UPP and Extended Natural Sciences	Zoology & Entomology
Name	Ms Eldalize Kruger	Ms Justine Magson	Mnr C Venter	Mr Michael von Maltitz	Prof. Koos Albertyn	Dr Johan Venter	Dr B.G Zulch	Dr Johan van Niekerk	Ms Antoinette Nel	Ms Rina Meintjes	Dr C Jansen van Rensburg
Building	Room GEO 2.3, Geography Building	Room GG 305, Geology Building	Room WWG 121 Mathematical Sciences Building	Room W102, Mathematical Statistics Building	Room 51, Biotechnology Building	Room CEM 2. 101, Chemistry Building	Room A6, Quantity Surveying and Construction Management	Room 1B 68 Agriculture Building	Room 8 ARG8, Architecture Building	Room CEM 2. 202, Chemistry Building	Room D118, Biology Building
Telephone Nr	051 401 2185	051 401 9928	051 401 2320	051 401 2609 / 2933	051 401 2223	051 401 3336	051 401 3849	Office: 051 401 3765	051 401 3210	051 401 2783	051 401 9357
E-mail	krugere@ufs.ac.za	MarkramJ1@ufs.ac.za	venterc@ufs.ac.za	vmaltitz@ufs.ac.za	albertynj@ufs.ac.za	venterja@ufs.ac.za	zulchbg@ufs.ac.za	vNiekerkJA@ufs.ac.za	nelal@ufs.ac.za	meintjr@ufs.ac.za	JvRensC@ufs.ac.za

3.2 CONTACT DETAILS: ACADEMIC ADMINISTRATION AND PROGRAMME DIRECTORS – QWAQWA CAMPUS

Programme	ASSISTANT DEAN QWAQWA	FACULTY OFFICER: QWAQWA	UPP and Extended Natural Sciences	Biological Sciences	Mathematics and Applied Mathematics	Physics, Chemistry
Name	VACANT	Ms Mpho Leripa	Ms Lea Koenig	Dr Erwin Sieben	Mr Teboho Lesesa	Mr Richard Ocaya
Building	Humanity Building Qwaqwa Campus	Science Building Room 5	Education Building Room EDUC1013	Science Building Room 2006	Library Building Room LB2014	Science Building Room 0007
Telephone Number	058 718 5134	058 718 5132	058 718 5207	058 718 5330	058 718 5235	058 718 5301
E-mail	VACANT	leripamp@qwa.ufs.ac.za	koenigL@qwa.ufs.ac.za	siebenEJ@qwa.ufs.ac.za	lesesaT@qwa.ufs.ac.za	ocayaRO@qwa.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. J.P.C. Greyling**, Prof. G.N. Smit, Prof. H.A. Snyman, Prof. J.B. van Wyk, Prof. F.W.C. Neser	Prof. L.D. van Rensburg ***Prof. C.C. du Preez**	
Professors Extraordinary		Prof. M.M. Scholtz, Prof. T.L. Nedambale, Prof. A.J. van der Zijpp, Prof. A. Maiwashe		
Associate Professor	Prof. B. Grové	Prof. H.O. de Waal	Prof. P.A.L. le Roux, Prof. C.W. van Huyssteen	***Prof. H.J.H. Steyn**
Affiliated Professors			Prof. C.J. Stigter, Prof. S. Walker	
Affiliated Associate Professor			Prof. M. Tsubo, Prof. R. van Antwerpen	
Senior Lecturer	Dr A.C. Geyer	Dr A.M. Jooste	Dr J. Allemann, Dr G.M. Ceronio, Dr G.M. Engelbrecht	
Lecturers	Dr H. Jordaan, ***Dr D.B. Strydom**, Dr N. Matthews, Mr A.O. Ogundeji, Mr F.A. Maré, Mr J.I.F. Henning, Mr P. Mokhatla, Mr H.N. van Niekerk	Dr M.D. Fair, Mr P.J. Malan, Mr F.H. de Witt, Mr O.B. Einkamerer, Dr G.D.J. Scholtz, Mr F. Deacon	Mr J.H. Barnard, Ms L. de Wet, Ms E. Kotzé, Mr A.S. Steyn	Ms I. van der Merwe, Dr J.F. Vermaas
Junior Lecturers		Mr M.B. Raito		Ms J.S. van Zyl, Ms P.Z. Swart, Ms N. Cronje, Ms N. Tinta
Lecturers Units	Dr L. Terblanche, Mr W.A. Lombard, Ms N. Mdungela, Ms N. Venter, Ms J. Hayward		Dr J.H. van der Waals	
Research Associate			Prof. J.C. Pretorius	
Junior Researcher		Dr B.B. Janecke		
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)
Professor	Prof. W.H. Peters		Prof. V.J. Nel
Associate Professor		***Prof. K. Kajimo-Shakantu**	
Affiliated Professor	Prof. O. Joubert		
Senior Lecturers	Ms M. Bitzer, Ms P.N. Tumubweinee, Ms A. Wagener	Dr B.G. Zulch	Dr M.M. Campbell
Lecturers	Mr G. Bosman, Mr J.L. du Preez, Mr J.W. Ras	Mr P.M. Oosthuizen, Dr M.S. Ramabodu, Ms M. Els, Dr T Froise, Ms T Bremer, Mr L Mohlomola, Ms E. Jacobs, Ms O.R.C. du Preez (contract lecturer)	Ms T Mphampbukeli, Mr T Stewart
Junior Lecturers	***Mr H.B. Pretorius**, Mr W.R. Bitzer, Mr J.I. Olivier, Mr J.H. Nel, Mr H. Raubenheimer, Mr Z.G. Wessels		Mr S Donoon-Stevens Mr KS Mocwagae
Research Fellow		**Prof J.J.P Verster**	

	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	***Prof. A. Roodt**						
Senior Professor						***Prof. J.H. Meyer**	Prof. M.S. Finkelstein
Professor			***Prof. J.J. Spies,** Prof. J.P. Grobler	Prof. G.E. Visser		Prof. A.H.J.J. Cloot	Prof. R. Schall
Professor Researcher					Prof. W.A. van der Westhuizen		
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	Dr E. Nel			Prof. W.P. Colliston, Prof. M. Tredoux, Prof. C.D.K. Gauert	Prof. T.M. Acho	
Affiliated Professors	Prof. D. Ferreira, Prof. H. Frank, 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		
Affiliated Associate Professors	Prof. C. Edlin, Prof. G. Fouché, Prof. V. Maharaj, Prof. G.Steyl		Prof. A. Kotzé				
Senior Lecturers	Dr S.L. Bonnet, Dr K von Eschwege, Dr J.A. Venter, Dr E.H.G. Langner, Dr E. Erasmus	Dr A. van Biljon, Dr L. de Wet, Dr J.E. Kotze, Dr T. Beelders		***Dr C.H. Barker** Dr J.J le Roux	Dr J.O. Claassen, ***Dr F. Roelofse**	Ms J.S. van Niekerk, Dr S. Dorfling	Dr J.M. van Zyl, Dr L van der Merwe, ***Mr F.F. Koning,** Dr D. Chikobvu, Dr A. Verster
Senior Lecturer-researcher					Dr H.E. Praekelt		
Lecturers	Dr L. Twigge, Dr A. Brink, Dr M. Schutte-Smith, Dr E. Müller, Dr R. Shago, Dr A. Wilhelm, Ms A-L. Manicum	Ms E.H. Dednam, Mr A.J. Burger, Mr W. Nel, Mr R. Brown	Dr K. Ehlers, Mr M.F. Maleka, Mr J.A. Viljoen, Dr P. Spies, Ms S-R Schneider, Ms Z. Odendaal, Ms H. Bindeman	Ms E. Kruger, Ms T.C. Mehlomakhulu, Dr R.T. Massey, Ms M. Rabumbulu, Ms A. Pretorius, Mr A.J. van der Walt		Ms A.F. Kleynhans, Mr C. Venter	Mr A.M. Naudé, Mr 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, Mr R.C. Fouché, Mr J. Marais, Mr J.P. du Plessis, Mr D. Wium, Ms T Nkali	Ms L. Wessels		Mr A.I. Odendaal, Ms J. Magson, Ms T. Mapoli, Mr R Rentel, Ms R Makhadi	Mnr M. Fasondini Mnr B.E de Klerk Ms A. Swart	
Subject Coordinators	Dr C. Marais, Ms R. Meintjes						

	CHEMISTRY (058 718 5130)	**COMPUTER SCIENCE AND INFORMATICS** (058-718 5216)		**GEOGRAPHY** (058-718 5476)		**MATHEMATICS AND APPLIED MATHEMATICS** (058-718 5204)	
QWAQWA-CAMPUS							
Professor	Prof. A.S. Luyt						
Associate Professor				Prof. W.F. van Zyl			
Senior Lecturers				***Dr G. Mukwada** Dr S.A. Adelabu			
Lecturers	Ms 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 A. Adjei, Ms M. Naidoo, Dr S Adelaba		Mr S.P. Mbambo	
Junior Lecturers	***Mr R.G. Moji,**	Mr B. Sebastian, Mr F.M. Radebe, Mr T. Lesesa, Mr M.B. Mase, Mr G.J. Dollman		Mr P.S. Mahasa, Ms N.M. Sekhele, Mr N 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				
Distinguished Professor							
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.G.Osthoff	Prof. P.J. Meintjes, ***Prof. J.J. Terblans,** Prof. O.M. Ntwaeaborwa, Prof. W.D. Roos	Prof. Z.A. Pretorius, Prof. W.J. Swart, Prof. N.W. McLaren		Prof. M.T. Labuschagne	***Prof. L. Basson,** Prof. S. v.d. M. Louw
Professors Extraordinary				Prof. P. Crous			Prof. G.L. Prinsloo, Prof. L.J. Fourie
Associate Professors	Prof. C.H. Pohl-Albertyn	Prof. A. Hugo, Prof. C.J. Hugo	Prof. M.J.H. Hoffman Prof. R.E. Kroon		Prof. P.J. du Preez	***Prof. L. Herselman**	Prof. L.L. van As
Affiliated Professors	Prof. M.F. DeFlaun						
Affiliated Associate Professors	Prof. . E.J. Lodolo		Prof. K.T. Hillie	Prof. R. Prins	Prof. M. van der Bank	Prof. R. Prins, Prof. J.B.J. van Rensburg	
Senior Lecturers	Dr H.G. O'Neill, Dr F.H. O'Neill, Dr D. Opperman	Dr J. Myburgh, Dr M. de Wit		Dr M. Gryzenhout, Dr G.J. Marais	Dr G.P. Potgieter, Dr B. Visser		Dr C.R. Haddad
Lecturers	Dr O.M. Sebolai, Dr C.W. Swart-Pistor	Dr C. Bothma	Dr B. van Soelen		Dr M. Cawood, Dr L. Mohase, Dr M. Jackson, Dr L. Joubert	Dr A. van Biljon, 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	Dr C.E. Boucher, Mr W.P.D. Schabort				Ms M. Westcott		Mr V.R. Swart, Ms L. Heyns, Mr D Fourie
Research Associate					Dr L. Rossouw		
Senior Researcher			Dr E Coetsee-Hugo				

Researcher	Ms L. Steyn						
	MICROBIAL, BIOCHEMICAL AND FOOD BIOTECHNOLOGY		**PHYSICS** (058 718 5302)	**PLANT SCIENCES** (058 718 5134)			**ZOOLOGY AND ENTOMOLOGY** (058 7185324)
	Division of Microbiology and Biochemistry	**Division of Food Science**		**Plant Pathology**	**Botany**	**Plant Breeding**	
QWAQWA-CAMPUS							
Associate Professor			Prof. B.F. Dejene				
Senior Lecturers					***Dr A.O.T. Ashafa,** Dr E.J.J. Sieben, Dr L.V. Buwa		***Dr A. le Roux,**
Lecturers			***Mr K.G. Tshabalala** Mr R.O. Ocaya, Mr S.V. Motloung,		Dr R. Ngara		Dr P.M. Leeto, Dr J. van As, Dr E. Bredenhand Ms H.J.M. Matete,
Junior Lecturers			Dr L.F. Koao		Mr T.R. Pitso		Ms M. van As

	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)**	***Acting Head Dr J.A. van Niekerk**	***Prof. PD Vermeulen**
Professor					
Associate Professor		Prof. P.W.J. van Wyk			
Affiliated Professors			Prof. A. Turton		
Affiliated Associate Professors					Prof. K.T. Witthüser
Affiliated Researchers					Prof. J.F. Botha, Dr J. van der Merwe
Senior Lecturer				Prof. I.B. Groenewald	
Lecturers	***Dr A.J. Jordaan**				
Junior Lecturers	Dr B. Grové, Dr L. Terblanche, Prof. G. Viljoen, Mr E. du Plessis, Prof. H. Hudson, Prof. W. Purcell, Mr C. Dreyer, Dr D. Sakulski, Dr H. Booysen, Ms A. Weyers, Dr D. Chikobvu				
	Ms O. Kunguma, Ms A. Ncube, Ms J. Belle, Mr A.O. Ogundeji				
Lecturers/Researchers					Dr F.D. Fourie, Dr M. Gomo, Mr S.S. de Lange, Mr E. Lukas
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. I.B. Groenewald, Prof. A. Stroebel Prof. A.E. Nesamvuni, Prof. A. Pell Dr K. Davis, Dr C. Dlamini Dr S.E. Terblanche, Dr B.D. Nkosi Dr E.M. Zwane	Mr P.J.H Lourens
Chief Scientist					Mrs L-M Deysel

***Academic Department Head**

5. QUALIFICATION TYPES

The Higher Education Qualifications Framework (HEQF) contains nine 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 Degree	7	360	Minimum 120 credits at Level 7 Maximum 96 credits at Level 5	Bachelor Honours Degree	8	120	Minimum 120 credits Minimum 120 credits at Level 8
Professional Degree	8	480	Minimum 120 credits at Level 7 Minimum 96 credits at Level 8 Maximum 96 credits at Level 5	Master's Degree	9	180	Minimum 180 credits Minimum 120 credits at Level 9
				Doctoral Degree	10	360	Minimum 360 credits Minimum 360 credits at Level 10

6. CONSTITUTION OF QUALIFICATIONS

The majority of the bachelor's degrees offered in the Faculty of Natural and Agricultural Sciences consist of three years' study. The first year of study provides students with the opportunity to develop a broad scientific foundation and they are required to complete eight modules (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 a supportive discipline. Learning programmes provide students with the opportunity to select modules from related supportive disciplines to ensure purposeful qualifications. For most degrees, in the third year of study, students must specialise in two major fields of interest, for example, Physics and Chemistry, or Microbiology and Biochemistry, or Genetics and Botany (at NQF Level 7), with at least a total of 60 credits completed for each major. Other degrees require specialisation in more fields of interest and the total number of 120 credits on NQF level 7 credits are required. Furthermore, students may also be required to complete modules to ensure that they have the necessary literacy required to function in a demanding academic environment. The diagram below indicates how degrees are composed 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 interest, namely:

- Architecture
- Agricultural Sciences
- Consumer Sciences

The Bachelor of Science (BSc) and the Bachelor of Science Honours degrees make provision for six fields of interest, namely:

- Biological Sciences
- Building Sciences
- Consumer Sciences
- Chemical and Physical Science
- Geosciences
- Information Technology
- Mathematical Sciences

The Bachelor of Sciences in Agriculture (BScAgric) degree makes provision for three fields of interest, namely:

- Animal, Grassland and Wildlife Sciences
- Plant Breeding and Plant Pathology
- Soil, Crop and Climate Sciences

In each field of interest different modules may be combined as majors. The different combinations of majors, minors and supportive modules are referred to as learning programmes. All the learning programmes comply with the minimum credits as indicated under the heading *Types of Qualifications* above. Each learning programme has a unique code which refers to a qualification registered with SAQA. The first two or three digits refer to different degrees as follows:

Advanced Diploma	400xx	Bachelor Agric	501xx	Master's degree by dissertation	473xx	Doctor	493xx
Advanced Diploma Agric	500xx	Bachelor of Science Agriculture	5xxyy	Master's degree by coursework	474xx	Doctor of Philosophy	491xx
Bachelor	401xx	where xx and yy represent the		Master of Science by dissertation	471xx	Doctor of Science	490xx
Bachelor of Science	4xxyy	codes of two majors		Master of Science by coursework	472xx	University Preparation Programmes	
where xx and yy represent the		Bachelor Honours	453xx	Master of Agricultural Sciences by dissertation	571xx	Agriculture	5000x
codes of two majors		Bachelor of Science Honours	450xx	Master of Agricultural Sciences by coursework	572xx	Sciences	4000x
		Bachelor of Science in Agriculture Honours	550xx			Extended programmes	
		Postgraduate Diploma	460xx			Agriculture	509xx
						Sciences	409xx

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 degree, or a single specialty area in the case of Honours, Master's and Doctoral degrees. Every discipline is identified by a two-digit code as given in the table below.

Table 1: Identification codes of different disciplines

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

Table 2: Identification codes of other specialisation fields

Approved Alternative Combination	00	Facilities Management	58	Mineral Resource Throughput Management	68	Forensic Genetics	78
Programme without two majors	01 – 09	Finance	59	Nano Sciences	69	Forensic Entomology	79
Accounting	50	Geographical Information Systems	60	Plant Health Ecology	70	Computer Information Systems	80
Agricultural Engineering	51	Human Molecular Biology	61	Polymer Sciences	71	Forensic Interdisciplinary	81
Agricultural Management	52	Irrigation Management	62	Property Sciences	72	Irrigation Science	82
Business	53	Human Settlements	63	Psychology	73	Plant Breeding Interdisciplinary	83
Environmental Sciences	54	Land & Property Development Management	64	Risk Analysis	74	Wildlife Science	84
Economics	55	Life Sciences	65	Wildlife Management	75		
Environmental Management	56	Limnology	66	Physiology	76		
Environmental Rehabilitation	57	Microbiotechnology	67	Forensic Chemistry	77		

The curricula for the different learning programmes 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.34.

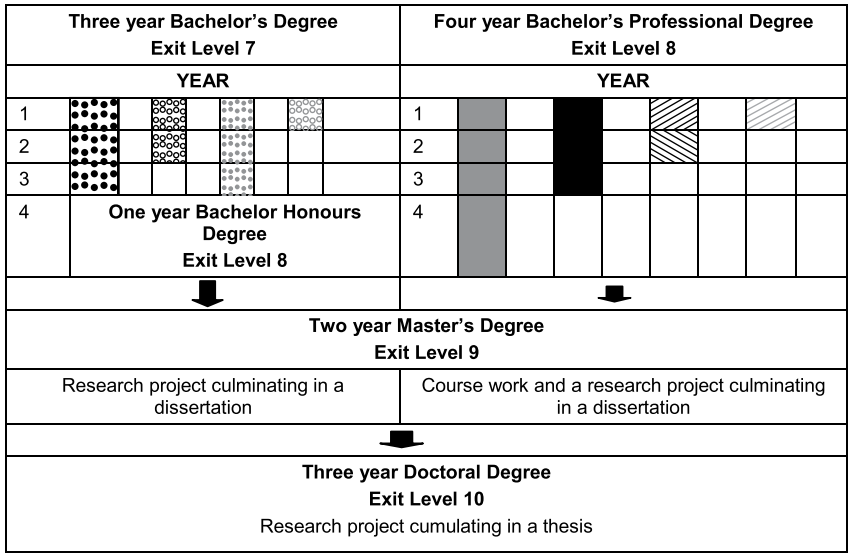
Examples of learning programme codes

Learning programme	First two or three digits represent type of degree (or part of the major)	Subsequent digits represent different disciplines or specialisation fields	Learning programme code
BAgric In Agricultural Economics	401xx	xxx11	40111
BConsumer Science	401xx	xxx23	40123
BSc with Chemistry and Physics	42xxx (where 2 is part of 20, the code for Chemistry)	x2140	42140
BSc Hons Chemistry	450xx	xxx21	45021
MSc Chemistry by dissertation	471xx	xxx21	47121
PhD Chemistry	491xx	xxx21	49121

7. 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 modules may be presented as semester or year modules. The credits awarded to every module give an indication of the teaching and learning time. 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), on NQF Level 7, presented during the third academic year at NQF 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 honours, masters 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.

8. 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. • Is able to work 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 of 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.

9. FACULTY RULES

NAS1 – General rules

The **General Institutional Rules** of the UFS are set out in General Institutional Rules (First Qualification, as well as Advanced and Postgraduate Qualifications) for each year in the Rule Book of the University, and contains the following relevant information:

GENERAL RULES FOR FIRST QUALIFICATIONS			
A1 – General rules	A2 – Applying for admission	A3 – Admission or readmission 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 – Credits accumulation and credits transfer
A9 – Assessment rules	A10 – Qualification with distinction	A11 – Results statements, academic records, study records, certified statements, certificates of conduct and certified examination timetables	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 lecture venue timetable and examination timetable
A17 – Residence in campus accommodation	A18 – Fees payable	A19 – Information communication and information technology	
GENERAL RULES FOR POSTGRADUATE DIPLOMA			
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 – Credits accumulation and credits 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 lecture venue timetable and examination timetable	A38 – Residence in campus accommodation	A39 – Fees payable
A40 – Information communication and information technology			
GENERAL RULES FOR BACCALAUREUS HONOURS DEGREES			
A45 – General rules	A46 – Applying for admission	A47 – Admission or readmission to the university and to an honours bachelor's 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 – Credits accumulation and credits transfer
A53 – Assessment rules	A54 – Qualification with distinction	A55 – Qualification certificates, Dean's and Senate Medals	A56 – Intellectual property
A57 – Publication of a research essay	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 lecture venue timetable and examination timetable	A63 – Residence in campus accommodation	A64 – Fees payable
A65 – Information communication and information technology			

GENERAL RULES FOR MASTER DEGREES			
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 delivery	A75 – Requirements in respect of a master's research dissertation (dissertation) or publishable, interrelated articles (journal article option) or a coursework master's dissertation (mini-dissertation, extended essay or an essay)	A76 – Duration of study and compiling a curriculum	A77 – Student registration and re-registration
A78 – Modifying a research title	A79 – Supervisor(s) and co-supervisor(s)	A80 – Assessors and moderators	A81 - Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre
A82 – Credits accumulation and credits 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 research dissertation (dissertation) or a coursework master's dissertation (extended essay or essay)	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 lecture venue timetable and examination timetable	A93 – Residence in campus accommodation
A94 – Fees payable	A95 – Information communication and information technology		

GENERAL RULES FOR DOCTOR'S DEGREES			
A100 – General rules	A101 – Applying for admission	A102 – Admission or readmission to the university and to a doctorate	A103 – Submission of documentation required to register as a student
A104 – Mode of delivery	A105 – Requirements in respect of a thesis, publishable, interrelated articles (journal article option) or minithesis	A106 – Duration of study and compiling a curriculum	A107 – Student registration and re-registration
A108 – Modifying a research title	A109 – Promoter and co-promoter(s)	A110 – Assessors and moderators	A111 – Switching qualifications and/or disciplines and/or modules and/or migrating to another university campus/centre
A112 – Credits accumulation and credits 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 – Module and lecture venue timetable and examination timetable	A123 – Residence in campus accommodation
A124 – Fees payable	A125 – Information communication and information technology		

GENERAL RULES FOR DOCTOR'S DEGREES (NQF Exit Level 10)			
A130 – General rules	A131 – Applying for admission	A132 – Admission to the higher doctorate	A133 – Student registration and re-registration
A134 – Mentor	A135 – Assessors	A136 – Requirements to be met when submitting scientific publications	A137 – Assessment reports
A138 – Pass requirements	A139 – Plagiarism	A140 – Qualification certificates	A141 – Fees payable

GENERAL RULES: HONORARY DEGREES			
A145 – Honorary-degree proposals	A146 – Qualification certificates	A150 – Convocation	

The General Institutional Rules of the UFS apply to this faculty *mutatis mutandis* (A1 to A150). 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 programmes and Bachelor degrees. The following fields of study are covered in each of the categories at the main campus and on the Qwaqwacampus where indicated or where indicated on the Qwaqwacampus only:

- **Diplomas**: Advanced Diploma in Sustainable Agriculture in Rural Development.
- **Access and Extended 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 Degrees:**
  - **Bachelor of:**
    - Architecture; Agriculture (Agricultural Management, Animal Production Management, Crop Production Management, Irrigation Management, Mixed Farming Management, Wildlife Management); Agricultural Economics, Consumer Sciences(General and Food);
  - **Bachelor of Science in:**
    - Actuarial Sciences, Agricultural Economics,
    - Biological Sciences: 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 Microbiology, Botany and Zoology, Entomology and Genetics, Entomology and Microbiology, Entomology and Zoology, Genetics and Microbiology, Genetics and Zoology, Microbiology and Zoology, Behavioural Genetics, Human Molecular Biology, Forensic Sciences, Botany and Plant Breeding, Plant Health Ecology, Botany and Plant Pathology, Environmental Rehabilitation, Botany (Qwaqwa), Entomology (Qwaqwa) Life Sciences (Qwaqwa), Zoology (Qwaqwa).
    - Building Sciences: Construction Management(residential), Quantity Surveying(residential), Construction Management (Distance learning), Quantity Surveying (Distance learning)
    - Chemical and Physical Sciences: Chemistry and Biochemistry, Chemistry and Botany (Qwaqwa), Chemistry and Food Science, Chemistry and Microbiology, Chemistry and Physics (Qwaqwa), Physics and Agrometeorology, Physics and Astrophysics, Physics and Engineering Subjects, Chemistry and Entomology (Qwaqwaonly), Chemistry and Zoology (Qwaqwaonly).
    - Consumer Science
    - Geosciences: Geographical Information Systems, Geography and Environmental Sciences, Geography and Statistics, Geography and Agrometeorology, Environmental Geography (Qwaqwaonly),Geology specialisation, Geochemistry, Environmental Geology, Geology and Chemistry, Geology and Geography, Geology and Physics.
    - Information Technology: Information Technology and Chemistry, Information Technology and Mathematical Statistics, Information Technology and Mathematics, Information Technology and Physics, Information Technology with Buisness and Management, Information Systems.
    - Mathematics, Mathematical Statistics and Statistical Sciences: Climate Science, Econometrics, Investment Sciences, Psychometrics, Mathematics and Applied Mathematics, Mathematics and Chemistry, Mathematics and Mathematical Statistics, Mathematics and Physics, Mathematics and Finances, Statistics and Accounting, Statistics and Economics, Statistics and Psychology.

- **Bachelor of Science in Agriculture in:**
  - Agrometeorology, Agronomy, Animal Sciences, Food Science, Grassland Sciences, Plant Breeding, Plant Pathology, Soil Sciences.

NAS2.1 – Faculty Undergraduate entrance requirements

In addition to the requirements contained in General Regulation A3.1–3.6, a candidate 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 Bachelors 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 the Registrar, Academic Student Services, on or before 31 July 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 October, but the final selection will only be confirmed after the National Senior Certificate (NSC) 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 Admission Point (AP) or the M Scores (MS) are calculated as indicated in Table 3:

e) The entrance 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: Calculating AP and M Scores

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

NSC Performance level	UFS Admission Point (AP)	NSC Performance level	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		

Calculation of the M score with regard to candidates 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 Entrance Requirements

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.	(i) NSC with an endorsement that allows entrance to degree studies or an equivalent qualification.
(ii) A minimum MS of 30.	(ii) A minimum AP of 30.
(iii) HG = E or SG = C in an official tuition language.	(iii) A performance level 4 (50%) 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.	(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 70% in MATD1564 or at least 60% in MATM1584 or a pass in MATM1534 is required
(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.**	(v) Both Life Sciences and Physical Science must be offered. **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.	(vi) Life Sciences level 5 (60%) and Physical Science level 4 (50%). Alternatively, at least 60% is required in the modules CHEM1412, CHEM1532, CHEM1622 and CHEM1642.
(vii) Participation in the NBT tests for Language.	(vii) Participation in the NBT tests for Language.
(viii) Participation in the NBT tests for Mathematics.	(viii) Participation in the NBT tests for Mathematics.

f) If students wish to transfer from other higher education institutions or another programme before they have completed their undergraduate studies must provide evidence of their academic progress, in the form of an academic record. 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 entrance 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 levels.	**(b) University Preparation Programme (Natural Sciences and Mathematics)** • Requires a National Senior Certificate 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%) OR Physical Science with a minimum achievement level 3 (40%).
(c) University Preparation Programme (Agricultural Sciences) • National Senior Certificate 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%).
(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%).	**(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 32 or above.
(i) BSc majoring in Actuarial Science (4336) • Requirements (i), (iii-(iv), (vii) & (viii) in table 4 above. • A minimum AP of 34. • Mathematics at performance level 7 (80%).	**(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.
(k) BSc majoring in Agricultural Economics • Requirements (i)-(iv), (vii) & (viii) in table 4 above.	**(l) B Consumer Sciences** • Requirements (i)-(iii) & (vii) in table 4 above.

Table 5: Specific entrance requirements

(m) BArch

- A selection process takes place before admission. 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 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 Chemical and Physical Science

- Requirements (i)-(iv), (vii) & (viii) in table 4 above.
- Physical Science at performance level 5 (60%) or Physical Science HG = E or SG = C.
- If Biological subjects is the second major Life Sciences at performance level 5(60%) is required.
- Students intending to offer Chemistry as a major must take note that In the second year a maximum of 80 and in the third year a maximum of 60 students will be admitted to the second year owing to laboratory constraints. These students will be admitted based on academic excellence.
- Students intending to register for engineering subjects must take note that limited space is available.

BSc majoring in Physics and Engineering Subjects:

- AP score of ≥34
- Mathematics and Physical Science ≥13

(o) 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 2013.
- 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.

(p) BSc majoring in Biological Sciences with Genetics

Please note a selection process is required for: GENE2616, GENE2626, GENE3714, GENE3724, GENE3734, GENE3744

Students wishing to continue with any of these modules must apply for selection (genetics@ufs.ac.za). Only 150 students will be accepted based on academic performance.

(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.

Table 5: Specific entrance requirements

(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 excellence. Students who have not obtain 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 CHEM1412, CHEM1532, CHEM1622 and CHEM1642, and in MATD1564/194. • An AP of 34 or higher is highly recommended.	**(s) BSc (Information Technology)** • Requirements (i)-(iii) and (vii)& (viii) in table 4 above. • 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 MATM1614. Alternatively (senior students) a pass mark MATD1564 or in MATM1584. • If Chemistry or Physics is the second major, Physical Science at performance level 4 (50%) is required.
(s) 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 (Main Campus) or 50% in MATM1534 is required. • If Agrometeorology,or Chemistry or Physics is the second major Physical Science a performance level of 4 (50%) is required. • If enrolling for Applied Statistics degrees only level 5(60%) for Mathematics is a required	**(t) BSc majoring in Quantity Surveying and BSc majoring in Construction Management** • NSC with an endorsement that allows entrance to degree studies or an equivalent qualification. • A minimum AP of 34. • 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 75%. • B Tech QS/CM degree with an average of 65% and an AP 30 and above, with maximum of 80 credits will be considered. • Nat Diploma in QS with an average of 75% and an AP 30 and above, with no credits considered. • Other degrees: B Com 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 50 students are considered. • Application must be submitted before or on 31 July, the year before intended registration to the programme.

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

a) Students who score below 65% in the language NBT test 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 subjects 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, Honours, Master's, and Doctoral degrees.

The following Postgraduate Diplomas are presented:
Advanced University Diploma in Disaster 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, Agricultural Management, Consumer Sciences, Spatial Planning.
- Bachelor of Science Honours degree is awarded in the following fields of study: Actuarial Sciences, Agricultural Economics, Agrometeorology, Astrophysics, Behavioural Genetics, Biochemistry, Botany (Qwaqwa), Chemistry (Qwaqwa), Computer Information Systems, 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 Degrees are divided into three categories, namely; Master Degrees, Master's of Sciences degrees, and Master's of Sciences in Agriculture degrees. The following fields of study are covered in each of the categories:

- Master Degrees is offered in the following fields of study: Architecture, Architecture (Professional), Agricultural Management, Consumer Science, Disaster Management, Environmental Management, Human Settlements (MLHS Research), Irrigation Management, Sustainable Agriculture, Land and Property Development Management, Urban and Regional Planning (Professional) and Urban and Regional Planning (Research), Wildlife Management
- Master's 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 Information Systems, Construction Management, Consumer Science, Entomology, Environmental Geology, 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, Nano Science Physics, Polymer Science, Plant Breeding, Plant Breeding Interdisciplinary, Plant Health Ecology, Plant Pathology, Soil Science, Statistics, Quantity Surveying, Zoology.
- Master's of Science in Agriculture are offered in the following fields of study: Agrometeorology, Agronomy, Animal Sciences, Food Science, Grassland Science, Plant Breeding, Plant Pathology, Soil Science.

PhD degrees are offered in the following fields of study:

- Actuarial Sciences, Architecture, Agricultural Economics, Agricultural Management, Agronomy, Agrometeorology, Animal Sciences, Astrophysics, Applied Mathematics, Behavioural Genetics, Geographical Information Systems, Biochemistry, Botany, Chemistry, Computer Information Systems, 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, Geography, Geography and Environmental Science, Geohydrology, Geology, Grassland Science, Human Settlements (MLHS Research), Irrigation Management, Land and Property Development Management, Limnology, Mathematics, Mathematical Statistics, Microbiology, Microbial Biotechnology, Mineral Resource Throughput Management, Nanoscience, Physics, Plant Breeding, Plant Breeding Interdisciplinary, Plant Health Ecology, Plant Pathology, Polymer Science, Property Science, Quantity Surveying, Risk Analysis, Spatial planning, Soil Science, Statistics, Sustainable Agriculture, Urban and Regional Planning, Wildlife, Wildlife Management and Zoology.

DSc degrees are offered in the following fields of study:

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

NAS3.1 – Admission requirements for the Advanced University Diploma

In addition to the requirements contained in General Regulation A3.2, a candidate has to comply with the additional faculty requirements:

(a) A applicant have at least a minimum three-year degree (at NQF 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. Advanced University Diploma in Disaster Management	• Admission depends on previously acquired knowledge and experience in the disaster management field, as well as an appropriate NQF Level 7 qualification

NAS3.2 – Admission requirements for Bachelor Honours Degrees

In addition to the requirements contained in General Regulation A47, a candidate has to comply with the additional faculty requirements:

(a) A Bachelor degree or equivalent NQF Level 7 qualification including one of the following: BArch, BAgric, B Consumer Sciences, BSPHons, 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 subjects 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/Program Director.

(d) Applicants should apply for admission to the Honours degree on the prescribed form. These forms should be completed and handed to the Program 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.

NAS3.3 – Specific programme requirements for Honours degrees

2. Architecture	• Application must reach the UFS before 31 May. • 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 BArch Hons selection, a candidate 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. • Candidates who do not comply with the above prerequisite must either repeat (only once) selected module(s) or work on the express recommendation of the Academic Department Head, in an architect's office for a year in order to be eligible for BArch Hons selection the following year. • Candidates may be required to attend a personal interview, present a portfolio and provide verified academic records. The final discretion on whether the candidate is regarded as being ready 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 tested as part of selection.
3. Actuarial Science	• A candidate must have a BSc or BCom degree in Actuarial Science, as well as being qualified for at least four exemptions in the subjects of the Faculty / Institute of Actuaries, of which at least one exemption has to be for CT1, CT4 or CT6.
4. Agricultural Economics	• A minimum of 60% in Agricultural Economics at third year level.
5. Agriculture	**Agricultural Management, Irrigation Management, Wildlife Management** • A minimum of 60% in agricultural management and/or agricultural 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 courses.
6. Agrometeorology	• Agrometeorology at third-year (NQF 7) level.
7. Behavioural Genetics (Human Genetics)	• Admission into BSc Hons 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. Admission is subject to a selection process.
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 BSc Hons 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 CHEM3714, CHEM3734, CHEM3724 and CHEM3744 or equivalent NQF 7 level modules.
11. Computer Information Systems	• A minimum average of 60% is required for the four third-year Computer Science modules (CSIS3714, CSIS3734, CSIS3724 and CSIS3744) or their equivalents. 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 honours programme. • Bachelors/BSc degree in Construction Management at NQF level 7 at an accredited institution with an average of 60% in exit year.
14. Entomology	• Entomology at third-year (NQF 7) level.

15. Environmental Rehabilitation	• A minimum of 60% in relevant modules at third-year (NQF 7) level and in consultation with the Academic Departmental Head.
16. Food Science	• Food Science at third-year (NQF 7) level. An average of 65% in undergraduate Food Science modules. Admission is subject to a selection process.
17. Forensic Sciences	• Admission into BSc Hon 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 BSc Hon 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 the same year.
19. Geography	• A candidate 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 honours degree. In exceptional cases the department may grant admission by virtue of an oral or written evaluation in which the candidate displays relevant knowledge of the theory and principles of the subject. Depending on a candidate's academic background, additional modules may be prescribed by the department. Proof of computer literacy is a prerequisite. A candidate's skills in English will be assessed and if the required standard is not met, additional modules (Proficient performance in the TALPS Test is required) will be prescribed. For admission to the examination, a semester mark or year mark of at least 50% is required for each module. A candidate must pass with an average mark of 60% for all 3rd year Geography subjects OR pass with an average of 60% for all Geography subjects.
20. Geology, Geochemistry and Environmental Geology	• For admission to the honours degree in Geology, Geochemistry or Environmental Geology a candidate 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 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 honours programme. However the Geochemistry and the Environmental Geology programme can only accommodate a maximum of five students. 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. B.Sc in Geography with an average of 60% of 3 year modules.
22. Geohydrology	• A degree in Engineering or a BSc or a BScAgric 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. The candidate compiles his/her curriculum in consultation with the Director of the Institute of Groundwater Studies.
23. Grassland Science	• Grassland Science at third-year (NQF 7) level.
24. Home Economics	• BSc Home Economics, 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 subjects and consult with the Departmental Head after a meeting has taken place where Honours applications are considered.
26. Limnology	• A BSc or BScAgric degree with at least one of the following as major: Biochemistry, Botany, Chemistry, Entomology, Mathematics, Microbiology, Physics, Soil Science, Zoology.
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 honours modules. Proficient performance in the TALPS Test is also required before enrolment. Students may be required to take additional undergraduate courses based on their academic background. The Academic Departmental Head grants admission and consults on the compilation of the curriculum. Students will do an oral presentation for their final assessment. Proficient performance in the TALPS Test is required.
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. These include FSCB3724 and BOCM3714. Admission is subject to a selection process.
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 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 BSc Agric 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 60% in STSA2616, STSA2626, STSA3716 and STSA3726.
37. Spatial Planning	• A person may be considered for selection and admitted to the programme in Spatial Planning if he/she is in possession of an appropriate qualification at NQF Level 7 (SAQA certificate must accompany the qualification when requested), as approved by the Academic Departmental Head and has an average of at least 60% in previous qualifications.. • 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. • 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, or shall be determined by the Recognition of Prior Learning office. Supplementary courses, as determined by the Head of the Department, may be required; or a student may be expected to do an extra year of study in order to complete the programme. • Proficient language skills in the medium of instruction (English or Afrikaans) may be tested as part of selection. An acceptable module in the use of language as determined by the Academic Departmental Head, will have to be taken at the students' own cost and passed should he/she not comply with the required standard.
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 honours programme. • Bachelors/BSc degree in Quantity Surveying at NQF level 7 at an accredited institution with an average of 60% in exit year.
39. Wildlife	• Grassland Science at third-year (NQF 7) level or equivalent modules and in consultation with the Academic Departmental Head..
40. Zoology	• Zoology at third-year (NQF 7) level.

NAS3.4 – Admission requirements for MASTER DEGREES

In addition to the requirements contained in General Regulation A72, a candidate has to comply with the additional faculty requirements:

(a) All MASTER 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 Program Director at the beginning of the second semester. Selection will take place when the results are ready. The Master's courses 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 Honours degree or equivalent NQF 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 Head of the Department, 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 level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research and an AP of 30 and above, may be recognized as meeting the minimum entry requirements for a Masters Degree programme.

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

1.	**Master of Architecture** *(for Professional registration)*	• Application must reach the UFS before 31 May. • A selection process takes place before admission. A maximum number of 45 candidates 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 candidate must have obtained a BArchHon 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. • Candidates 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 BArch Hons selection the following year. • Candidates may be required to attend a personal interview, present a portfolio and provide verified academic records. • Qualifying candidates must submit a research proposal as determined and communicated by the Academic Department Head. The final discretion whether the candidate is regarded as ready for the programme will rest with the selection panel.
2.	**Master of Architecture** *(for extended research)*	• Apart from the general regulations the following is applicable: • Candidates must have obtained EITHER the advanced postgraduate professional qualification, BArch or an equivalent thereof OR the BArchHon or its equivalent. • Candidates who are in possession of the BArchHon must prove that a Design Dissertation formed part of the requirements for the conferment of such degree. • Candidates who are in possession of the BArchHon must have obtained a minimum of 60% in THREE of the following modules or their equivalent: DESN6800, CONS6808, HURB6804 and RARC6808. • Qualifying candidates must submit a dissertation proposal as determined and communicated by the Academic Department Head. The final discretion whether the candidate is regarded as being ready for the programme will be the selection panel's.
3.	**Master of Agriculture**	Apart from the general regulations, the following apply: • Students must convince the specific Academic Department Head that he/she has sufficient knowledge of the subject to be admitted to the programme.
4.	**Master of Disaster Management**	Apart from the general regulations the following is applicable: • A candidate must in order to be admitted to this Master's programme have: o a disaster management Honours degree or equivalent from any other institution (Minimum 120 Credits, NQF Exit Level 8) with an average pass mark of 60%, OR o an Advanced University Diploma in Disaster Management from the UFS or any other institution(Minimum 120 Credits, NQF Exit Level 8) with an average pass mark of 60%. • A candidate 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. • A candidate must submit a research proposal together with the application. **NB: An Executive Committee of the UFS will assess the extent, nature and suitability of experience or preparatory studies mentioned above.**
5.	**Master of Environmental Management**	Apart from the general regulations the following is applicable: • A three-year degree (on NQF Level 7) or an equivalent qualification with appropriate experience will be considered by the University for admission. Depending on the academic background of the candidate, additional modules may be prescribed. • Where a candidate with merit does not comply fully with the admission requirements, the Dean, in conjunction with the Faculty Management Committee, may recommend that the requirements be partially waived. • As only a limited number of candidates 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.

6.	**Master of Land and Property Development in Housing**	Apart from the general regulations the following is applicable: • A candidate 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 Honours degree plus applicable studies, and/or practical experience. • A candidate must submit a research proposal together with the application.
7.	**Master of Land and Property Development Management**	In addition to the requirements contained in General Regulation A3.1-3.6, a candidate 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. • Bachelor of Science Honours or relevant Honours degree on NQF level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research and an AP of 30 and above, may be recognized as meeting the minimum entry requirements to this Masters Degree programme. • In addition to these requirements the General Institutional Rules, Regulation for Master's Studies of the UFS as well as the additional Natural and Agricultural Sciences faculty requirements per discipline (see Reg. NAS3.5). • A selection process takes place before admission. A maximum number of 25 students are admitted owing to classroom constraints. • Application must be submitted before or on 31 August each year of the year before intended registration.
8.	**Master of Sustainable Agriculture**	Apart from the general regulations the following is applicable: • A candidate who wishes to enrol for the degree must have one of the following: - an applicable three-year degree plus applicable practical experience and/or applicable preparatory study, OR - 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 (Research)**	Apart from the general regulations the following is applicable: • A candidate 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 Honours degree and applicable studies, and/or practical experience. • A candidate must submit a research proposal together with the application.
10.	**Master of Urban and Regional Planning (Professional)**	Apart from the general regulations 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). • Bachelor in Land and Property Development Management (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 Head of the Department, after consultation with the Dean and/or the Recoginition of prior Learning, 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. • A candidate must sumbit a research proposal together with the application.

11.	**Master of Science**	Apart from the general regulations the following is applicable to the different disciplines: • **Geohydrology** - An applicable Honours degree with a minimum average pass mark of 65% is required. Additional coursework may be prescribed where candidates do not have the required background in Geohydrology. In special cases admission may be allowed in consultation with the Director of IGS. • **Limnology** - Candidates in possession of a BSc Hons degree in Limnology are admitted to this course for which a dissertation (LIMG8900 – 180 credits) is required, based on an approved research project. Persons in possession of a BSc Hons or BScAgric Hons degree in a related field of study must, in addition to the dissertation, successfully complete theoretical work and assignments (4) in Limnology in order to gain Honours status in Limnology before the dissertation is handed in for examination. The Limnology Committee will appoint supervisors and decide in which department a candidate will register. For further information: 051 401 2863. • **Mathematics or Applied Mathematics** - For admission to a Master's degree in Mathematics or Applied Mathematics, the candidate needs Mathematics or Applied Mathematics, or the equivalent at 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. Candidates may be required to take additional modules if their relevant background is insufficient. Proficient performance in the TALPS Test is required. • **Mathematical Statistics** - An appropriate Honours degree and mathematical background is required. Admission is subject to the approval of the Academic Departmental Head. • **Computer Information Systems** - An applicable Honours degree with a minimum average pass mark of 60% is required. • **Geology** - Proficient performance in the TALPS Test is required.
12.	**Master of Science in Agriculture**	Apart from the general regulations the following is applicable: • The candidates must convince the head of the department/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. Student must complete DATA2614 and DATA2624 before degree is awarded. Not applicable for Plant Breeding.
13.	**Master of Science in Home Economics**	• No additional requirements.
14.	**Master of Science in Construction Management**	In addition to the requirements contained in General Regulation A3.1-3.6, a candidate 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. • Bachelor of Science Honours or relevant Honours degree on NQF level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research and an AP of 30 and above, may be recognized as meeting the minimum entry requirements to the Masters Degree programme. • In addition to these requirements the General Institutional Rules, Regulation for Master's Studies of the UFS as well as the additional Natural and Agricultural Sciences faculty requirements per discipline (see Reg. NAS3.5). • A candidate must submit a research proposal together with the application.
15.	**Master of Science in Quantity Surveying**	In addition to the requirements contained in General Regulation A3.1-3.6, a candidate 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. • Bachelor of Science Honours or relevant Honours degree on NQF level 8 with an average of 60% in the exit year of the relevant degree and included at least 30 credits of research and an AP of 30 and above, may be recognized as meeting the minimum entry requirements to the Masters Degree programme. • In addition to these requirements the General Institutional Rules, Regulation for Master's Studies of the UFS as well as the additional Natural and Agricultural Sciences faculty requirements per discipline (see Reg. NAS3.5). • A candidate must submit a research proposal together with the application.

NAS3.6 – Transfer between higher degree studies

- In consultation with the supervisor(s) and on the recommendation of the supervisor(s), the Academic Departmental Head and the Research Committee of the faculty, a candidate who has been admitted for the Master's degree in terms of Reg. A80 may, after a study and registration period of at least one year, apply to be allowed to continue his/her studies at the PhD degree level. Following admission to the PhD, at least two years must elapse before the PhD degree can be conferred. The period of study for the degree will therefore be at least three years.

- The MSc degree may be conferred upon a candidate if:
  - the candidate withdraws his candidature for the PhD degree, or
  - his candidature for the PhD degree is cancelled, or
  - the candidate does not meet the requirements for the Doctoral degree

NAS3.7 – Admission requirements for a doctoral degree

In addition to the admission requirements contained in General Regulation A106, a candidate 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 candidate 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 candidate must have a Master's degree or equivalent NQF Level 9 qualification. Master 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) Disaster Management	• In order to be admitted to the PhD, a candidate 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. A candidate's thesis is written under the guidance of a promoter, and the thesis must demonstrate that the candidate is able to conduct independent scientific research.
(b) Limnology	• In order to be admitted to the PhD, a candidate must be in possession of an MSc in Limnology. Candidates in possession of an MSc degree in a related field of study will, in addition to the dissertation, have to complete theoretical work and assignments (4) in Limnology before the thesis can be submitted for examination. Two assignments shall take the form of presentations, and an oral examination takes place. • The Limnology Committee will appoint supervisors and decide in which department a candidate should register.
(c) Environmental Management	• In order to comply with the admission requirements, a candidate must possess a MEM degree before registering for the PhD degree. Individuals holding another Master's degree may be considered for admission. In such instances the Management Committee of the Centre for Environmental Management may supplement the thesis with assignments, taken from the PGDIP Environmental Management or Integrated Water Management Learning Program course, which must be completed prior to the thesis being submitted for examination. The Management Committee of the Centre for Environmental Management will assign promoters and decide in which department a candidate should register.
(d) Microbial Biotechnology	• A candidate must be in possession of a Master's degree in Microbiology, Biochemistry, Food Science, Microbial Biotechnology or related disciplines. Candidates in possession of a Master's degree in related subjects (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.
e) Geology	• Proficient performance in the TALPS Test is required

NAS4 – Progress requirements

Regulation A8(c) 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 BScAgric and BSc Extended 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 (12) modules in their three- or 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 regulation, 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 under module contents p.83.

(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.
(d) For some modules the 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 subjects in the Faculty of Natural and Agricultural Sciences must comply with the minimum regulation requirements, as set out in NAS2.1 and NAS2.2 and with the prerequisite for specific modules as indicated in the module content on p.81.

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, Information Technology and Consumer Sciences fields of interest for BSc degrees; or Soil Crop and Climate, Animal Wildlife and Grassland, Agricultural Economics, or Food Science for one of BScAgric degrees; or Crop Production, or Animal Production fields of interest 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 exchange 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 interests or degrees within the faculty at the end of their first year of study. If a student changes from one field of interest to another, higher studies must be completed in a maximum of five or six years, depending on the field of interest.
b) Students can change within fields of interests 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 Degrees**
If a student want endorsement with **two majors,** at least 60 credits per major discipline at NQF Level 7 is required.

(b) **BArch, BAgric, B Consumer Sciences, BSc, BSc (Information Technology), BSc majoring in Quantity Surveying or BSc majoring 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, must be obtained over three years. At least 60 credits must be from one discipline and at NQF Level 7.
For BScQS and BScCM the 60 credits and NQF level 7 will not be from one discipline.

(c) **BSc Extended 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 Level 7 must be obtained over four study years.

(d) **BSc (Agriculture) Extended Programme (five years):**
A total of at least 594 credits, of at least 104 credits must be developmental modules, a maximum of 112 credits at NQF Level 5 and at least 120 credits at NQF Level 8 must be obtained over four study years.

(d) **BSc (Agriculture), BSc (Home Economics) (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 Level 8 for the degree must be obtained over four years. At least 60 credits must be from the minor discipline at NQF Level 7.

(e) **BSc (Agriculture) Extended Programme (five years):** A total of at least 592 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 Level 8 must be obtained over five study years.

NAS7.3 – Changing from BAgric to BSc (Agriculture)

(a) A student who has registered for the BAgric degree can change to a suitable learning programme in the BSc (Agriculture) degree in consultation with Academic Student Services and the Programme Director of Agriculture. The student must have passed the compulsory first academic year of the BAgric degree with an average mark of at least 75%. In addition, compulsory first-year modules such as MATM1534, CHEM1514 and STSB1624 and other required modules to comply with the minimum prerequisites for professional registration (SACNASP).

NAS8 – Assessment examination and promotion

NAS8.1 – Examination and promotion system

In addition to the requirements contained in General Regulation A28, a candidate 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 module contents starting on p.81. Students who obtain a semester for 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) For the duration of the examinations, see the module contents starting on p.81.
(d) The degree is awarded with distinction to a student who obtained a weighted average of 75% in the prescribed final modules and if the programme was completed in the prescribed minimum study years.

NAS8.2 – Evaluation 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 evaluation 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 evaluation procedure of those departments.
(c) Students in the Department of Architecture, Quantity Surveying and Construction Management must meet the prescribed sub-minimum of 30% for all assignments and design task as specified in the module guides to pass a module.

NAS8.3

In addition to the requirements contained in General Regulation A28.2, a candidate has to comply with the additional faculty requirements:

To gain admission to the examination in a module in the Faculty of Natural and Agricultural Sciences, a module mark of at least 45 percent is required.

10. QUALIFICATIONS IN THE FACULTY

10.1 BACHELOR DEGREES AND DIPLOMAS		MINIMUM PERIOD OF STUDY	NQF LEVEL	NUMBER OF LEARNING PROGRAMMES	ABBREVIATION	PAGE
DIPLOMA						
1	Advanced Diploma in Sustainable Agriculture in Rural Development	1,5 years	7	1	AdvDip (Sustainable Agriculture) (Rural Development)	35
ACCESS PROGRAMMES AND EXTENDED PROGRAMMES – South Campus first year of study						
1	University Preparation Programme: Agricultural Sciences for BAgric	1 year	5	1	UPP Agric	36
2	University Preparation Programme: Natural and Agricultural Sciences for BSc	1 year	5	1	UPP Mathematics& Chemistry	36
3	Bachelor of Agriculture Extended	4 years	7	1	BAgric	37
4	Bachelor of Bachelor of Science in Agriculture Extended Programme	5 years	8	1	BSc (Agriculture)	37
5	Bachelor of Science Extended Programme (Mathematics and Chemistry)	4 years	7	1	BSc	38
6	Bachelor of Science Extended Programme (Mathematics and Finances)	4 years	7	1	BSc	38
BACHELOR'S DEGREES						
1	Bachelor of Architecture	3 years	7	1	BArch	39
2	Bachelor of Agriculture	3 years	7	7	BAgric	40–41
3	Bachelor of Consumer Sciences	4 years	8	2	BConsumer Science	42
4	Bachelor of Science	3 years	7	6 (61)	BSc	43-56
5	Bachelor of Science in Information Technology	3 years	7	6	BSc (Information Technology)	51
6	Bachelor of Science majoring in Construction Management (Residential + Distance learning)	3 years	7	2	BSc majoring in Construction Management	48
7	Bachelor of Science majoring in Quantity Surveying (Residential+ Distance learning)	3 years	7	2	BSc majoring in Quantity Surveying	48
8	Bachelor of Science in Agriculture	4 years	8	4 (8)	BSc (Agriculture)	57–62
9	Bachelor of Science in Home Economics	4 years	8	1	BSc (Home Economics)	44

10.2 POSTGRADUATE DIPLOMAS, BACHELOR, HONOURS, MASTER'S AND DOCTORAL DEGREES		MINIMUM PERIOD OF STUDY	NQF LEVEL	NUMBER OF LEARNING PROGRAMMES	ABBREVIATION	PAGE
POSTGRADUATE DIPLOMA						
1	Advanced University Diploma in Disaster Management	1 year	8	1	AdvUniDip (Disaster Management)	63
BACHELOR HONOURS DEGREES						
1	Bachelor of Architecture Honours	1 year	8	1	BArchHons	63
2	Bachelor of Agriculture Honours	1 year	8	3	BAgricHons	63
3	Bachelor of Science Honours in Home Economics	1 year	8	1	BScHons (Home Economics)	64
4	Bachelor of Science Honours	1 year	8	35	BScHons	65-71
5	Bachelor of Science Honours majoring in Construction Management (Residential)	1 year	8	1	BScHons majoring in Construction Management	67
6	Bachelor of Science Honours majoring in Quantity Surveying (Residential)	1 year	8	1	BScHons majoring in Quantity Surveying	67
7	Bachelor of Science Honours majoring in Construction Management (Distance learning)	2 years	8	1	BScHons majoring in Construction Management	67
8	Bachelor of Science Honours majoring in Quantity Surveying (Distance learning)	2 years	8	1	BScHons majoring in Quantity Surveying	67
9	Bachelor of Spatial Planning Honours	1 year	8	1	BSPHons	64
MASTER DEGREES						
1	Master of Architecture	2 years	9	1	MArch	72
2	Master of Architecture (Professional)	1 year	9	1	MArch	72
3	Master of Agriculture	2 years	9	1	MAgric	72
4	Master of Disaster Management	2 years	9+8	1	MDM	73
5	Master of Environmental Management	2 years	9	1	MEM	73
6	Masterof Land and Property Development in Housing	2 years	9	1	MLPD (Housing)	76
7	Master of Land and Property Development Management	2 years	9	1	MLPM	75
8	Master of Sustainable Agriculture	2 years	9	1	MSA	74
9	Master of Science	2 years	9	36	MSc	77-79
10	Master of Science in Agriculture	2 years	9	8	MSc (Agriculture)	70
11	Master of Science in Home Economics	2 years	9	1	MSc (Home Economics)	80
12	Master of Science in Construction Management	2 years	9	1	MSc (Construction Management)	80
13	Master of Science in Quantity Surveying	2 years	9	1	MSc (Quantity Surveying)	80
14	Master of Urban and Regional Planning (Professional)	1 year	9	1	MURP	81
15	Master of Urban and Regional Planning (Research)	2 years	9	1	MURP	82
DOCTORAL DEGREES						
1	Doctor of Architecture	3 years	10	1	DArch	83
2	Doctor of Philosophy	3 years	10	57	PhD	83
3	Doctor of Science	3 years	10	50	DSc	84

11. LEARNING PROGRAMMES & MODULES REQUIRED

11.1 DIPLOMAS

11.1.1 ADVANCED DIPLOMA IN SUSTAINABLE AGRICULTURE IN RURAL DEVELOPMENT 50047(5203)

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		

11.2 LEARNING PROGRAMMES FOR ACCESS AND EXTENDED PROGRAMMES (SOUTH CAMPUS)

Candidates 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 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

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

YEAR			Semester 1	Semester 2
1	**Academic Modules**	Mathematics Chemistry Biology Computer Science	MATD1554 OR MATD1534 CHEM1412 + CHEM1532 BLGY1513	MATD1564 MATD1544 CHEM1622 + CHEM1642 **ONE OF** BLGY1643 OR CSIS1564
	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 interest modules of the learning programme of his/her choice on the main 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 CHEM1412 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1412 and MATD1554 or level 4 for NSC Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have have a level 4 for NSC 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, CHEM1561 and CSIL1521 as well as all the first year main fields of interest 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 CHEM1561, students must have passed CHEM1551. • The modules CHEM1412, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1561 must be passed to get recognition for CHEM1514 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 interest 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, CHEM1561 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.			

11.2.2 AGRICULTURAL SCIENCES 50001(5002) (AGRICULTURAL SUBJECTS)

		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 interest modules of the learning programme of his/her choice on the main 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 interest <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. • CSIQ1531must be passed to get recognition for CSIL1511. (See BSc main fields of interest 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 PROGRAMMES 50990, 50991 (4393)

LEARNING PROGRAMMES FOR EXTENDED PROGRAMMES

11.2.3 BSc AGRICULTURE FIVE-YEAR 50990 SOUTH CAMPUS

Year		Semester 1	Semester 2
1	Mathematics Chemistry Biology Introduction to Programming	MATD1554 OR MATD1534 CHEM1412 + CHEM1532 BLGY1513	MATD1564 MATD1544 CHEM1622 + CHEM1642 **ONE OF** BLGY1643 CSIS1564
	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 interest modules of the learning programme of his/her choice on the main 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 CHEM1412 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1412 and MATD1554 or level 4 for NSC Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have have a level 4 for NSC 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, CHEM1561 and CSIL1521 as well as all the first year main fields of interest 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 CHEM1561, students must have passed CHEM1551. • The modules CHEM1412, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1561 must be passed to get recognition for CHEM1514 and CHEM1624/CHEM1644. • BLGY1513 must be passed to get recognition for BLGY4153 and CSIQ1531to get recognition for CSIL1511. (See BSc main fields of interest learning programmes).		
3	**Follow main fields of interest 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, CHEM1561 and CSIL1521 to be allowed to change to the programme code of current study.		
4	**Follow main fields of interest third year BSc learning programme of choice as set out in the Faculty Rule Book.**		

11.2.4 B AGRICULTURE FOUR YEAR 50991 SOUTH CAMPUS

Year		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 SCLL1408 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 interest modules of the learning programme of his/her choice on the main 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 interest 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. • CSIQ1531must be passed to get recognition for CSIL1511. (See BSc main fields of interest learning programmes).		
3	**Follow the main fields of interest second year BAgric learning programme of choice as set forth in the Faculty Rule Book.**		
4	**Follow the main fields of interest third year BAgric learning programme of choice as set forth in the Faculty Rule Book.**		

11.2.5 BSc FOUR-YEAR 40990(MATHEMATICS AND CHEMISTRY)

Year		Semester 1	Semester 2
1	Mathematics Chemistry Biology Introduction to Programming	MATD1554 OR MATD1534 CHEM1412 + CHEM1532 BLGY1513	MATD1564 MATD1544 CHEM1622 + CHEM1642 **ONE OF** BLGY1643 CSIS1564
	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 interest modules of the learning programme of his/her choice on the main campus set out in the Faculty's Rule Book. Students must take note of the following requirements: • Students must pass all two academic modules in the June examination to continue their studies in the second semester • To register for CHEM1622 students must have passed CHEM1412 and CHEM1532 • To register for CHEM1642 students must have passed CHEM1412 and MATD1554 or level 4 for NSC Mathematics. • To register for MATD1564 students must have passed MATD1554. • To register for MATD1534 students must have have a level 4 for NSC 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, CHEM1561 and CSIL1521 as well as all the first year main fields of interest 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 CHEM1561, students must have passed CHEM1551. • The modules CHEM1412, CHEM1622, CHEM1532, CHEM1642, CHEM1551 and CHEM1561 must be passed to get recognition for CHEM1514 and CHEM1624/CHEM1644. • BLGY1513 must be passed to get recognition for BLGY1513 (main campus) and CSIL1551 to get recognition for CSIL1511. (See BSc main fields of interest 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, CHEM1561 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.**		

11.2.6 BSc FOUR-YEAR 40991 (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	MATD1564 OR MATD1544 CSIS1564 **Two of the following:** EACC1624 OR EFIO1525 EFEC2624
	Academic language course Life-long Learning – Natural Sciences Computer Literacy	EALN1508 SCNS1508 CSIL1551	
	After successful completion of ALLTHE 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 interest modules of the learning programme of his/her choice on the main 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 have a level 4 for NSC 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 interest modules in the learning programme of choice as set out in the Faculty Rule Book.**		
3	**Follow main fields of interest second year learning programme of choice in the Faculty Rule Book.**		
4	**Follow main fields of interest third year learning programme of choice in the Faculty Rule Book.**		

11.3 LEARNING PROGRAMMES FOR BACHELOR DEGREES FOR DEGREES (NQF LEVEL 7 & 8)

11.3.1 BACHELOR OF ARCHITECTURE 40114(4310)

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

The purpose of this programme is to educate candidates 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 evaluations 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.

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

11.3.2 BACHELOR OF AGRICULTURE

11.3.2.1 MANAGEMENT SPECIALISATION FIELDS OF INTEREST 50101-50106 (5311-5318)

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 INTEREST 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 and the second year of study.

DISCIPLINE	**IRRIGATION MANAGEMENT**	**ANIMAL PRODUCTION MANAGEMENT**	**MIXED FARMING MANAGEMENT**	**WILD LIFE MANAGEMENT**	**CROP PRODUCTION MANAGEMENT**	**AGRICULTURAL MANAGEMENT**	**IRRIGATION MANAGEMENT**	**ANIMAL PRODUCTION MANAGEMENT**	**MIXED FARMING MANAGEMENT**	**WILD LIFE MANAGEMENT**	**CROP PRODUCTION MANAGEMENT**	**AGRICULTURAL MANAGEMENT**
OLD CODE	**5311**	**5312**	**5313**	**5317**	**5314**	**5316**	**5311**	**5312**	**5313**	**5317**	**5314**	**5316**
NEW CODE	**50104**	**50102**	**50105**	**50106**	**50103**	**50101**	**50104**	**50102**	**50105**	**50106**	**50103**	**50101**
EXT CODE	**50904**	**50902**	**50905**	**50906**	**50903**	**50901**	**50904**	**50902**	**50905**	**50906**	**50903**	**50901**
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	AGEC1534 AGEC2614 ANIG2614 CROP2614	CROP2624 SOIL2624 AGEC1624 AGEG2624	AGEC1624 AGEC2624 AGEG2624 ANIG2624	AGEC1624 CROP2624 ANIG2624 **ONE OF** CLIM2624 SOIL2624 AGEG2624	SOIL2624 AGEC1624 AGEG2624 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 **ONE OF** AGMA3714 AGMA3734	GRAS3714 ANIG3714 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 GRAS3764 AGMA3762 **ONE OF** AGMA3724 AGMA3744	CROP3724 SOIL3724 CLIM3724 AGMA3762 **ONE OF** AGMA3724 AGMA3744	AGMA3724 AGMA3744 AGMA3762 **ONE OF** CROP3724 ANIG3724 ANIG3744

11.3.2.2 AGRICULTURAL ECONOMICS 50111(5318)

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 INTEREST 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	AGEC1534 LMER1514 EACC1614 AGEC1514	AGRI1624 EBUS1624 LMER2624 AGEC1624		AGEC2614 EBUS1614	AGEC2624 AGEG2624		AGEC3714 AGEC3734 AGMA3714	AGEC3724 AGEC3744 AGMA3724 AGMA3762
ELECTIVES				ETXA2608 CROP2614 SOIL2614 ANIG2614 GRAS2614	CROP2624 ANIG2624 SOIL2624		CROP3714 ANIG3714 SOIL3714 GRAS3714	CROP3724 ANIG3724 SOIL3724 GRAS3724
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521						

11.3.3 BACHELOR OF CONSUMER SCIENCES 40123 (4351, 4352)

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 INTEREST offer THREE options** of which two is a three-year exit at level outcome. 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 40123 (4351)						FOOD 40123 (4352)					
YEAR	**FIRST**	**FIRST**	**SECOND**	**SECOND**	**THIRD**	**THIRD**	**FIRST**	**FIRST**	**SECOND**	**SECOND**	**THIRD**	**THIRD**
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY C1	CNFD1532 CNST1534 CNCS1634 EBUS1614	CNCS1622 CNST1644 CNCS1624 EBUS1624	CNFD2614 CNST2614 MCBH2614 FSCS2614	CNFD2624 CNCS2624 CNCS2622 MCBH2624	CNST3712 CNCS3732 CNFD3713 CNFD3732 NUTE3714	CNFD3744 CNST3722 CNCS3724	CNFD1532 NUTE1514 CNCS1634 EBUS1614	CNCS1622 NUTE1524 EBUS1624 EBMA2624	NUTE2614 CNFD2614 MCBH2614 FSCS2614	NUTE2624 CNFD2624 CNCS2622 MCBH2624	FSME3714 CNCS3732 CNFD3713 CNFD3732 NUTE3714	FSME3724 CNFD3744 CNCS3724 ESBN2724
ELECTIVES E					**ONE OF** CNST3734 CNST3754 EBUS2714	**ONE OF** CNCS3744 EBMA2624 **ONE OF** CNST3744 ESBN2724						
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521					CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521				
YEAR	**FOURTH**						**FOURTH**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	**CNCS4809**											
ELECTIVES E	CNST4814 CNST4834 CNST4853 CNCS4834 CNFD4808 NUTE6808 CNCS4814						CNST4824 CNST4844 CNST4864 CNCS4824 CNCS4844					

11.4 LEARNING PROGRAMMES FOR BACHELOR OF SCIENCE DEGREES (NQF LEVEL 7 & 8)

11.4.1 BACHELOR OF SCIENCE

11.4.1.1 **BACHELOR OF SCIENCE** 4xx00

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 Level 7 credits in that major and a combination of different related modules for at least 60 credits also at NQF Level 7.

YEAR	FIRST			SECOND			THIRD	
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY	**60 CREDITS OF**	**60 CREDITS OF**	C2	**60 CREDITS OF**	**60 CREDITS OF**	C3	**60 CREDITS OF**	**60 CREDITS OF**
C1	BLGY1513	BLGY1623 OR BLGY1643		BOCB2616	BOCE2626		BOCM3714+BOCE3714	BOCP3724+BOCS3724
	CHEM1514	OR BLGY1663 OR BLGY1683		CHEM2614+CHEM2632	CHEM2624+CHEM2642		CHEM3714+CHEM3734	CHEM3724+CHEM3744
	PHYS1514 OR PHYS1534	CHEM1624 OR CHEM1644		ZLGY2616	ZLGY2626		ZLGY3714+ZLGY3734	ZLGY3724+ZLGY3744
	MATM1614 OR MATM1534	PHYS1624 OR PHYS1644		PHYS2614+ PHYS2632	PHYS2624+PHYS2642		PHYS3714+PHYS3732+PHYS3752	PHYS3724+PHYS3742+PHYS3762
	GLGY1614	MATM1624 OR MATM1544		GENE2616	GENE2626		FORS3734+GENE3734	GENE3724+GENE3744
		GLGY1624		MCBP2616	MCBP2626		MCBG3714	MCBM3724+MCBP3724 or MCBB3724
				BTNY2616+BTNY2602	BTNY2626		BTNY3714+BTNY3702	BTNY3724+BTNY3744
				MATM2614	MATM2624		BTNY3734+BTNY3754	ENTO3724+ENTO3744
				MATA2634	MATA2644		ENTO3714+ENTO3734	FSCP3724+FSCB3724
				MATM2654	MATM2664		FSCA3714+FSCI3714	
				ENTO2616	ENTO2626			
				FSCI2612+FSCC2612	FSCC2622+FSCS2624			
REQUIRED	CSIL1511	CSIL1521						
	UFS101							
*if NBT < 65%	EALN1508 OR AGAN1508							

11.4.1.2 **BACHELOR OF SCIENCE MAJORING IN ACTUARIAL SCIENCE** 41000 (4336)

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	MATM1614	MATM1624	C2	ACSF2716	ACSF2746	C3	ACSL3706	STSM3724
C1	STSM1614	STSM1624		MATM2614	MATM2644		ACSF3706	STSM3744
	ACSF1513	EECF1624		STSM2616	STSM2626		ACSS3716	
	EECF1614	ACSF1523		EMIC2714	EMAC2724		STSM3714	
	ACSG1614	CSIQ1682			MATA2664		STSM3734	
ELECTIVE				MATM2654				
REQUIRED	CSIL1511	CSIL1521						
	UFS101							
*if NBT < 65%	*EALN1508 or AGAN1508							

11.4.1.3 BACHELOR OF SCIENCE MAJORING IN AGRICULTURAL ECONOMICS 41100

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 BScAgric 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 INTEREST 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	CSIQ1682		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	
REQUIRED	CSIL1511	CSIL1521						
	UFS101							
*if NBT < 65%	*EALN1508 or AGAN1508							

11.4.1.4 BACHELOR OF SCIENCE IN HOME ECONOMICS 42301 (4354)

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 INTEREST offer one option,** that takes four years and exits at at NQF 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	FIRST		SECOND	SECOND		THIRD	THIRD		FOURTH	FOURTH
SEMESTER	**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**		**FIRST**	**SECOND**
COMPULSORY	BLGY1513	BLGY1643		BOCH2614	EBMA2624		CNFD3713	CNFD3744		CSCS4809 R	CSCS4824
C1	CHEM1514	BLGY1683		MCBP2616	CNFD2624		CNFD3732	FSCP3724		Select 76 credits from CSCS4814	FSCD4826
	PHYS1534	CHEM1644		CNFD2614	FSCS2624		NUTE3714	CSCS3724		CNFD4808	
	CNFD1532	STSB1624		FSCI2612	FSCC2622		FSCA3714	FSCB3724		NUTE6808	
		CSCS1622		FSCC2612			CNCS3732			FSCP4814	
REQUIRED	CSIL1511	CSIL1521									
*if NBT < 65%	UFS101										
	*EALN1508 or AGAN1508										

11.4.1.5 BACHELOR OF SCIENCE MAJORING IN BIOLOGICAL SCIENCES

BIOLOGICAL SCIENCES FIELDS OF INTEREST 1: 41920, 41927, 41931, 41939, 41949, 42027, 42031, 42039, 42049, 42731, 42739, 42749, 43139, 43149, 43949, 41929, 41946, 41976 (4306, 4302, 4304, 4307, 4305, 4503)

LEARNING PROGRAMMES BIOLOGICAL SCIENCES FIELDS OF INTEREST 1

Learning programmes in the BIOLOGICAL FIELD OF INTEREST 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 Microbiology, Biochemistry and Genetics, Biochemistry and Botany, Biochemistry and Entomology, Biochemistry and Zoology, Microbiology and Genetics, Microbiology and Botany, Microbiology and Entomology or Microbiology and Zoology. 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. Students could also combine one of the six disciplines with food science(29), Statistics(46) and Physiology(76).

DISCIPLINE	BIOCHEMISTRY	MICROBIOLOGY	GENETICS	BOTANY	ENTOMOLOGY	ZOOLOGY	BIOCHEMISTRY	MICROBIOLOGY	GENETICS	BOTANY	ENTOMOLOGY	ZOOLOGY
OLD CODE	**41929, 41946, 41976**	**4305**	**4307**	**4302**	**4304**	**4303**	**4306**	**4305**	**4307**	**4302**	**4304**	**4303**
DISCIPLINE CODE	19	39	31	20	27	49	19	39	31	20	27	49
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 OR MATM1534	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644 OR CHEM1624	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644 OR CHEM1624	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644 OR CHEM1624	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644	BLGY1623 BLGY1643 BLGY1663 BLGY1683 STSB1624 CHEM1644
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	GENE2616	BTNY2616 BTNY2602	ENTO2616	ZLGY2616	BOCE2626	MCBE2626	GENE2626	BTNY2626	ENTO2626	ZLGY2626
C2		BOCB2616						BOCE2626				
ELECTIVES	CHEM2614 CHEM2632 PHBG2616 STSA2616 FSCI2612 FSCC2612 MATM2614	CHEM2614 CHEM2632 STSA2616 FSCI2612 FSCC2612	PHBG2616		CROP2614 PLTB2613		CHEM2624 CHEM2642 PHBG2626 FSCC2622 + FSCS2624 STSA2626 MATM2624	IQMQ2622 CHEM2624 CHEM2642 FSCC2622 + FSCS2624 STSA2626 MATM2624	PHBG2626		CROP2624 CROP3724 PPLG3724 PLTB2623	
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	BOCM3714 BOCE3714	MCBG3714 MCBP3714	GENE3714 GENE3734	BTNY3702 BTNY3714 **ONE OF** BTNY3734 BTNY3754	ENTO3714 + ENTO3734 OR ENTO3754	ZLGY3714 ZLGY3734	BOCP3724 BOCS3724	MCBM3724 **ONE OF** MCBP3714 MCBB3724 FSCB3724	GENE3724 GENE3744	BTNY3724 BTNY3744	ENTO3724+ ENTO3744	ZLGY3724 ZLGY3744
C3		BOCM3714										
ELECTIVES	PHBG3716 PHBN3712 STSA3732 STSA3716 FSCA3714 FSCI3714	STSA3716 FSCA3714 FSCE3714	HMBG3714 HMBG3734 PHBG3716 PHBN3712		CROP3714 PPLG3714 PLTB3714		FSCP3724 + FSCB3724 STSA3742 STSA3726 PHBG3726 PHBE3722	FSCP3724 STSA3742 MCBP3724 MCBB3724 FSCB3724	HMBG3724 HMBG3744 PHBG3726 PHBE3721 FORS3744		CROP3724 PPLG4824 PLTB4824	

BIOLOGICAL SCIENCES FIELDS OF INTEREST 2: 43118, 43161, 43130 (4376, 4377)

LEARNING PROGRAMMES IN BIOLOGICAL SCIENCES FIELDS OF INTEREST 2

Learning programmes in the BIOLOGICAL SCIENCES FIELDS OF INTEREST 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	HUMAN MOLECULAR BIOLOGY	FORENSIC SCIENCES	GENETICS & PHYSIOLOGY	BEHAVIOURAL GENETICS	HUMAN MOLECULAR BIOLOGY	FORENSICS SCIENCES	GENETICS & PHYSIOLOGY (43176)
OLD CODE	**4377**	**4376**			**4377**	**4376**		
DISCIPLINE CODE	**43118**	**43161**	**43130**	**43176**	**43118**	**43161**	**43130**	
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1514 PSIN1514 MATM1614 or MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 or MATM1534	BLGY1513 CHEM1514 PHYS1534 or PHYS1514 MATM1614 or MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	PSDE1624 BLGY1623 BLGY1663 BLGY1683 STSB1624 CHEM1624 or CHEM1644	BLGY1623 BLGY1643 BLGY1663 BLGY1683 CHEM1644 STSB1624	BLGY1623 BLGY1663 CHEM1624 PHYS1644 or PHYS1624 MATM1544	BLGY1623 BLGY1643 BLGY1663 BLGY1683 CHEM1644 STSB1624
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	GENE2616 PSSO2614	GENE2616	FORS2616 GENE2616 CHEM2614 CHEM2632	GENE2616 PHBG2616	GENE2626 PSIH2724	GENE2626	FORS2626 GENE2626 CHEM2624 CHEM2642	GENE2626 PHBG2626
ELECTIVES (E)	ZLGY2612 PHBG2616	BOCB2616 ZLGY2616 PHBG2616 MCBP2616		BOCB2616 ZLGY2616 MCBP2616	ZLGY2626	BOCE2626 ZLGY2626 PHBG2626 MCBP2616		BOCE2626 ZLGY2626 MCBP2626
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	GENE3714 GENE3734 PSPA3714 PSRM3714	GENE3714 GENE3734 HMBG3714 HMBG3734	FORS3714 FORS3734	GENE3714 GENE3734 PHBG3716 PHBN3712	GENE3724 GENE3744 PSPE3724 PSTH3724	GENE3724 GENE3744 HMBG3724 HMBG3744	FORS3724 FORS3744	GENE3724 GENE3744 PHBG3726 PHBE3722
ELECTIVES (E)	ZLGY3714, ZLGY3734 PHBG3716, PHBN3712 HMBG3714, HMBG3734		GENE3714 + GENE3734 CHEM3714 +CHEM3734		ZLGY3724, ZLGY3744 PHBG3726, PHBE3722 HMBG3724, HMBG3744 FORS3744	FORS3744	GENE3724 + GENE3744 CHEM3724 + CHEM3744	FORS3744

BIOLOGICAL SCIENCES FIELDS OF INTEREST 3: 42070,42041, 42042, 42057

LEARNING PROGRAMMES BIOLOGICAL SCIENCES FIELDS OF INTEREST 3

Learning programmes in the BIOLOGICAL SCIENCES FIELDS OF INTEREST 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
OLD CODE								
NEW CODE	**42070**	**42042**	**42041**	**42057**	**42070**	**42042**	**42041**	**42057**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1614 or MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 or MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1614 or MATM1534	BLGY1513 CHEM1514 GLGY1614 MATM1534	BLGY1663 BLGY1643 CHEM1644 STSB1624 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 STSB1624 BLGY1683 SCCS1624	BLGY1623 BLGY1643 BLGY1663 BLGY1683 CHEM1644 STSB1624	BLGY1643 BLGY1663 STSB1624 SCCS1624 GLGY1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508				CSIL1521			
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
	ENTO2616 MCBP2616 **ONE OF** SOIL2614 CLIM2614 BTNY2616+BTNY2602 GRAS2614	BTNY2616 SOIL2614 MCBP2616 PLTB2613	BTNY2616 GENE2616 PLTB2613	BTNY2616 SOIL2614 GLGY2614	ENTO2626 PPLG2624 **ONE OF** CROP2624 CLIM2624 BTNY2626	BTNY2626 BTNY2602 PLTB2623 PPLG2624	BTNY2626 BTNY2602 PLTB2623 GENE2626	BTNY2602 BTNY2626 SOIL2624 GLGY2642 GLGY2644
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
	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

11.4.1.6 BACHELOR OF SCIENCE MAJORING IN BUILDING SCIENCES

BUILDING SCIENCES FIELDS OF INTEREST 1: 42401, 44301, 42402, 44302

A degree for the academic preparation of a candidate for the profession of Quantity Surveying and Construction Management. Learning programmes in the BUILDING SCIENCES FIELDS OF INTEREST 1 offer Five 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 (DIS)**		**BSc MAJORING IN QUANTITY SURVEYING (DIS)**	
New code	**42401**		**44301**		**42402**		**44302**	
	4387		**4386**		**4392**		**4324**	
	400 CREDITS		**384 CREDITS**		**400 CREDITS**		**384 CREDITS**	
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**FIRST**			
COMPULSORY C1	PQMR1504 COER1504 PDER1504 PHYS1512 EBUS1514 EBCS1514	MATM1542	DQFR1504 COER1504 PDER1504 PHYS1512 EBUS1514 EBCS1514	MATM1542	COED1504 PHYS1512 EBUS1514 PQMD1504 PDED1504 EBCS1514	MATM1542	COED1504 DQFD1504 PHYS1512 EBUS1514 PDED1504 EBCS1514	MATM1542
	EACC1614 OR	EMAC2624	EACC1614 OR	EMAC2624	EACC1614 OR	EMAC2624	EACC1614 OR	EMAC2624
ELECTIVES (One of)	ENGS1504 EGSR1504	ENGS1504 EBCS1524	ENGS1504 EGSR1504	ENGS1504 EBCS1524	ENGS1504 EGSD1504	ENGS1504 EBCS1524	ENGS1504 EGSD1504	ENGS1504 EBCS1524
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521	CSIL1511 UFS101 *EALN1508 or AGAN1508	CSIL1521				
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	COER2604(BOE204) PDER2604(END204) EECF1614 CSCR2604(KWE204) PQMR2604(POB204) BSCR2604(BOW204) LMER2604(HRG204)	LLBR2624(ABR224)	DQFR2604(BKF204) COER2604(BOE204) PDER2604(END204) EECF1614 BSCR2604(BOW204) CSCR2604(KWE204) LMER2604(HRG204)		COED2604(COE204) PDED2604(PDE204) EECF1614 CSCD2604(CSC204) PQMD2604(PQM204) BSCD2604(BSC204) LMED2604(HRG204)	LLBR2624(ABR224)	DQFD2604(DQF204) COED2604(COE204) PDED2604(PDE204) EECF1614 BSCD2604(BSC204) CSCD2604(CSC204) LMED2604(HRG204)	
ELECTIVES (One of)	EBUS1614 ARGR2604	EBUS1624 EECF1624	EBUS1614 ARGR2604	EBUS1624 EECF1624	EBUS1614 ARGD2604	EBUS1624 EECF1624	EBUS1614 ARGR2604	EBUS1624 EECF1624
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**	**FIRST**	**SECOND**
COMPULSORY C3	PQMR3704(POB304) CCMR3704(BKR306) PDER3704(END304) CSCR3704(KWE304) BSCR3704(BOW304) COER3704(BOE304) DQSR3704(BKS302)		DQFR3704(BKF304) CCMR3704(BKR306) PDER3704(END304) CSCR3704(KWE304) BSCR3704(BOW304) COER3704(BOE304) DQSR3704(BKS302)		PQMD3704(PQM304) CCMD3704(CCM306) PDED3704(PDE304) CSCD3704(CSC304) BSCD3704(BSC304) COED3704(COE304) DQSD3704(DQS302)		DQFD3704(DQF304) CCMD3704(CCM306) PDED3704(PDE304) CSCD3704(CSC304) BSCD3704(BSC304) COED3704(COE304) DQSD3704(DQS302)	
ELECTIVES (One of)	DQFR3704(BKF304) EBUS2714		EBUS2714 PQMR3704(POB304)		DQFD3704(DQF304) EBUS2714		EBUS2714 PQMD3704(PQM304)	

11.4.1.7 BACHELOR OF SCIENCE MAJORING IN CHEMICAL AND PHYSICAL SCIENCES
PHYSICAL AND CHEMICAL SCIENCES FIELDS OF INTEREST 44017, 44012, 44026, 42140, 42119, 42120, 42129,42139

LEARNING PROGRAMMES PHYSICAL AND CHEMICAL SCIENCES FIELDS OF INTEREST

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

- Physic and Chemistry as the two majors
- Physic 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**
CODE	42140	44017	44012	44026	42119 (with Biochemistry) 42120 (with Botany) 42139 (with Microbiology) 42129 (with Food Science)	42140	44017	44012	44026	42119 (with Biochemistry) 42120 (with Botany) 42139 (with Microbiology) 42129 (with Food Science)
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	PHYS1514 CHEM1514 MATM1614 OR MATM1534	PHYS1514 PHYA1554 MATM1614	PHYS1514 MATM1614 OR MATM1534	PHYS1514 MATA1614 MATM1614 CHEM1514 CISE1606 QALC1510	CHEM1514 BLGY1513 PHYS1534 MATM1614 OR MATM1534	PHYS1624 CHEM1624 MATM1624 **OR** MATM1544	PHYS1624 PHYA1664 MATM1624 **OR** MATM1544	PHYS1624 MATM1624 or MATM1544	PHYS1624 MATA1624 MATM1624 QEDR1524 QEFO1520	CHEM1624 BLGY1683 BLGY1643 STSB1624 MATM1544
ELECTIVES E1	CSIS1614 OR CSIS1634 STSM1614 PHYA1554	CSIS1614 OR CSIS1634 STSM1614	CSIS1614 OR CSIS1634 STSM1614 PHYA1554 CHEM1514 BLGY 1513			CSIS1624 **OR** CSIS1644 STSM1624 STSA1624 SCCS1624 PHYA1664	CSIS1624 **OR** CSIS1644 STSM1624 STSA1624	CSIS1624 **OR** CSIS1644 STSM1624 STSA1624 PHYA1664 CHEM1624		PHYS1644
REQUIRED *if NBT < 65%	CSIL1511 & UFS101 *EALN1508 OR AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	PHYS2614 PHYS2632 CHEM2614 CHEM2632	PHYS2614 PHYS2632 PHYA2613	PHYS2614 PHYS2632 CLIM2614	PHYS2614 PHYS2632 MATA2614 MATM2614	CHEM2614 CHEM2632 **AT LEAST ONE OF** BOCB2616 MCBP2616 BTNY2616+BTNY2602 FSCI2612+FSCC2612	PHYS2624 PHYS2642 CHEM2624 CHEM2642	PHYS2624 PHYS2642 PHYA2623 MATA2644	PHYS2624 PHYS2642 CLIM2624	PHYS2624 PHYS2642 MATA2644 MATM2664	CHEM2624 CHEM2642 **AT LEAST ONE OF** BOCE2626 MCBE2626 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
CODE	42140	44017	44012	44026	42119 (with Biochemistry) 42120 (with Botany) 42139 (with Microbiology) 42129 (with Food Science)	42140	44017	44012	44026	42119 (with Biochemistry) 42120 (with Botany) 42139 (with Microbiology) 42129 (with Food Science)
ELECTIVES E2	MATM2614 MATA2634 MATM2654 STSM2616	MATM2614 MATA2634 MATM2654 STSM2616	MATM2614 MATA2634 MATM2654 STSM2616	QMAD2612 QMSC2613 CSIE2613 QMAT2613	MATM2614 MATA2634 MATM2654 STSM2616	MATA2644 MATM2624 MATM2664 STSM2626	MATM2624 MATA2664 STSM2626	MATA2644 MATM2624 MATM2664 STSM2626	QSTR2624 QELT2722 GLGY2641+ GLGY2643 QWOR2520 QVAC2520	MATA2644 MATM2624 MATM2664 STSM2626
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	PHYS3714 PHYS3732 PHYS3752 CHEM3714 CHEM3734	PHYS3714 PHYS3732 PHYS3752 PHYA3772 PHYA3708	PHYS3714 PHYS3732 PHYS3752 CLIM4814	PHYS3714 PHYS3732 PHYS3752 QSM314 MATM2654 MATA3774	CHEM3714 CHEM3734 **ONE OF** BOCM3714+BOCE3714 MCBG3714+BOCM3714 BTNY3714+BTNY3734 OR BTNY3754 FSCA3714+FSCI3714	PHYS3724 PHYS3742 PHYS3762 CHEM3724 CHEM3744	PHYS3724 PHYS3742 PHYS3762 PHYA3782 MATA3784	PHYS3724 PHYS3742 PHYS3762 CLIM4824	**Choose ONE stream** PHYS3724+ PHYS3742+ PHYS3762 **OR** QTHE3724+ QENV3724	CHEM3724 CHEM3744 **ONE OF** BOCP3724+BOCS3724 MCBM3724+MCBP3724 **OR** MCBB3724 **OR** FSCB3724 BTNY3724+BTNY3744 MCBB3724+FSCB3724
ELECTIVES E3	CLNS3702	CLNS3702	CLNS3702	**ONE OF** QSUR3614+ QSTR3714 CSIE3614+ QSIG3714	CLNS3702					

11.4.1.8 BACHELOR OF SCIENCE IN COMPUTER AND INFORMATION TECHNOLOGY
COMPUTER AND INFORMATION TECHNOLOGY FIELD OF INTEREST I: 42221, 42237, 42238, 42240, 42253

SIX LEARNING PROGRAMMES IN INFORMATION TECHNOLOGY BSc(IT)

Learning programmes in Information Technology offer six main options with either

- Computer Science and Chemistry
- Computer Science and Physics
- Computer Science and Mathematics
- Computer Science in Business and Management
- Computer Science and Mathematical Statistics
- Information Systems (Will convert to B.CIS. in 2016)

Students SELECT ONE option and include all the compulsory modules in row C1,2,3 for all three study years. Students need to SELECT enough elective modules per semester from the compulsory row (C1) of any other subject field or from their own electives (E) to obtain at least 120 credits per year in the first year and the second year.

DISCIPLINE	CHEMISTRY	MATHEMATICS	MATHEMATICAL STATISTICS	PHYSICS	BUSINESS & MANAGEMENT	INFORMATION SYSTEMS	CHEMISTRY	MATHEMATICS	MATHEMATICAL STATISTICS	PHYSICS	BUSINESS & MANAGEMENT	INFORMATION SYSTEMS
	21	38	37	40	53		21	38	37	40	53	
YEAR	FIRST						FIRST					
SEMESTER	FIRST						SECOND					
COMPULSORY C1	CSIS1614 CSIS1553 CHEM1514 **ONE OF:** MATM1614 MATM1534	CSIS1614 CSIS1553 MATM1614 **ONE OF:** CHEM1514 PHYS1534	CSIS1614 CSIS1553 STSM1614 MATM1614	CSIS1614 CSIS1553 PHYS1514 **ONE OF:** MATM1614 MATM1534	CSIS1614 CSIS1553 **ONE OF:** EHRM1514 EBUS1514 EBCS1514 **OR:** MATM1574 MATM1534	CSIS1614 BSIS1513 EBUS1514 **ONE OF:** EHRM1514 EBCS1514	CSIS1624 CSIS1664 CHEM1624 **ONE OF:** MATM1544 MATM1624	CSIS1624 CSIS1664 MATM1624 **ONE OF:** CHEM1624 PHYS1644	CSIS1624 CSIS1664 STSM1624 **ONE OF:** MATM1544 MATM1624	CSIS1624 CSIS1664 PHYS1624 **ONE OF:** MATM1544 MATM1624	CSIS1624 CSIS1664 **ONE OF:** EIOP1524 EACC1624 STSA1624 **OR:** MATM1584 MATM1544	CSIS1624 BSIS1623 EIOP1524 EBCS5204
ELECTIVES							CSIQ1682	CSIQ1682	CSIQ1682	CSIQ1682	CSIQ1682	
REQUIRED *if NBT < 65%	CSIL1511 & UFS101 *EALN1508 OR AGAN1508						CSIL1521					
YEAR	SECOND						SECOND					
SEMESTER	FIRST						SECOND					
COMPULSORY C2	CSIS2614 CSIS2634 CHEM2614 CHEM2632	CSIS2614 CSIS2634 MATM2654 MATM2614	CSIS2614 CSIS2634 STSM2616	CSIS2614 CSIS2634 PHYS2614 PHYS2632	CSIS2614 CSIS2634 STSA2616 EBUS1614	BSIS2614 CSIS2634 EEBS2614 EBUS1614	CSIS2624 CSIS2664 CHEM2624 CHEM2642	CSIS2624 CSIS2664 MATM2624 or MATA2644 or MATM2664	CSIS2624 CSIS2664 STSM2626	CSIS2624 CSIS2664 PHYS2624 PHYS2642	CSIS2624 CSIS2664 STSA2626 EBUS1624 or EBMA2624	CSIS2624 BSIS2624 STSA2626 EBUS1624 or EBMA2624
ELECTIVES	MATM2654 MATA2634	MATA2634	MATM2654 MATM2614 MATA2634	MATM2654 MATM2614 MATA2634	EECF1614		MATA2644 CSIS2642	CSIS2642	MATA2644 MATM2664 CSIS2642	MATA2644 CSIS2642	EECF1624 CSIS2642	CSIS2642
YEAR	THIRD						THIRD					
SEMESTER	FIRST						SECOND					
COMPULSORY C3	CSIS3714 CSIS3734 CHEM3714 CHEM3734	CSIS3714 CSIS3734 MATA3774 **ONE OF:** MATM3714 or MATM3734	CSIS3714 CSIS3734 STSM3714 STSM3734	CSIS3714 CSIS3734 PHYS3714 PHYS3732 PHYS3752	CSIS3714 CSIS3734 **ONE OF:** EBUS2714 + ETRM3714 OR STSA3716 + STSA3732	CSIS3714 BSIS3714 EBUS2714 + ETRM3714	CSIS3724 CSIS3744 CHEM3724 CHEM3744	CSIS3724 CSIS3744 MATM3724 **ONE OF:** MATM3744 MATA3784	CSIS3724 CSIS3744 STSM3724 STSM3744	CSIS3724 CSIS3744 PHYS3724 PHYS3742 PHYS3762	CSIS3724 CSIS3744 **ONE OF:** ESBM2724 + EBMA3725 OR STSA3726 + STSA3742	CSIS3724 CSIS3744 ESBM2724 + EBMA3725

11.4.1.9 BACHELOR OF SCIENCE MAJORING IN GEOSCIENCES
GEOGRAPHY FIELD OF INTEREST 1: 43360, 43346, 43354, 43312 (4364) (4382)

LEARNING PROGRAMMES IN GEOSCIENCES FIELD OF INTEREST 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
NEW CODE	**43360**	**43346**	**43354**	**43312**	**43360**	**43346**	**43354**	**43312**
OLD CODE	4382		4364		4382		4364	
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	GEOP1514 CSIS1614 MATM1534 PHYS1514 EBUS1514	GEOP1514 CSIS1534 EBUS1514 MATM1534	GEOP1514 EBUS1514 BLGY1513 CHEM1514 MATM1534	GEOP1514 EBUS1514 BLGY1513 CHEM1514 MATM1534	GEOH1624 CSIS1624 CSIS1664 MATM1544 STSA1624	GEOH1624 STSA1624 CSIS1644 SCCS1624	GEOH1624 STSA1624 BLGY1643 BLGY1663 SCCS1624	GEOH1624 STSA1624 BLGY1643 BLGY1663 SCCS1624
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 GISC2724 CSIS2664	GEOP2624 GISC2724 STSA2626	GEOP2624 GISC2724 SOIL2624 GLGY2644	GEOP2624 GISC2724 SOIL2624 CLIM2624 GLGY2644
ELECTIVES E1	EBUS2714 CSIS1553		BTNY2616 + BTNY2602 OR ZLGY2612				BTNY2626 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 MATM2654		BTNY3702 + BTNY3714 + BTNY3734 + OR ZLGY3734 + ZLGY3714					

11.4.1.10 BACHELOR OF SCIENCE MAJORING IN GEOSCIENCES

GEOLOGY FIELD OF INTEREST 2: 43535, 43528, 43532, 43521, 43533, 43540 (4361, 4362, 4365)

LEARNING PROGRAMMES IN GEOSCIENCES FIELD OF INTEREST 2

Learning programmes in GEOLOGY FIELD OF INTEREST 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	GEOCHEMISTRY	ENVIRONMENTAL GEOLOGY	CHEMISTRY	GEOGRAPHY	PHYSICS	GEOLOGY	GEOCHEMISTRY	ENVIRONMENTAL GEOLOGY	CHEMISTRY	GEOGRAPHY	PHYSICS
CODE	**43535**	**43532**	**43528**	**43521**	**43533**	**43540**	**43535**	**43532**	**43528**	**43521**	**43533**	**43540**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	GLGY1614 CHEM1514	GLGY1614 CHEM1514 PHYS1514	GLGY1614 CHEM1514 GEOP1514	GLGY1614 CHEM1514	GLGY1614 CHEM1514 GEOP1514	GLGY1614 CHEM1514 PHYS1514	GLGY1624	GLGY1624 CHEM1624 or CHEM1644 MATM1544	GLGY1624 SCCS1624 EBUS1624	GLGY1624 CHEM1624	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 CHEM1644 CHEM1624 PHYS1644 PHYS1624 MATM1544				**ONE OF** CHEM1624 CHEM1644 SCCS1624	
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 **ONE OF** CHEM2614 GEOP2614 PHYS2614	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 CHEM2632 CHEM2614	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 SOIL2614	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 CHEM2632 CHEM2614	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 GEOH2614 GEOP2614	GLGY2602 GLGY2612 GLGY2614 GLGY2632 GLGY2652 PHYS2614 PHYS2632	GLGY2622 GLGY2624 GLGY2642 GLGY2644 GISC2724	GLGY2622 GLGY2624 GLGY2642 GLGY2644 CHEM2642	GLGY2622 GLGY2624 GLGY2642 GLGY2644 SOIL2624 GISC2724	GLGY2622 GLGY2624 GLGY2642 GLGY2644 CHEM2642 CHEM2624	GLGY2622 GLGY2624 GLGY2642 GLGY2644 GEOP2624 GISC2724	GLGY2622 GLGY2624 GLGY2642 GLGY2644 PHYS2624 PHYS2642
YEAR	**THIRD**						**THIRD**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C3	GLGY3714 GLGY3734 GLGY3754 GLGY3774	CHEM3714 GLGY3714 GLGY3754 GLGY3774	SOIL3714 GLGY3714 GLGY3754 GLGY3774	CHEM3714+ CHEM3734 GLGY3714 **ONE OF** GLGY3734 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 CHEM3724	SOIL3724 GLGY3724 GLGY3764 GLGY3784	CHEM3724 CHEM3744 GLGY3724 **ONE OF** GLGY3744 GLGY3764	GEOP3724 GISC3724 GLGY3724 **ONE OF** GLGY3744 GLGY3764 GLGY3784	PHYS3724 PHYS3742 PHYS3762 GLGY3724 **ONE OF** GLGY3764 GLGY3784

11.4.1.11 BACHELOR OF SCIENCE MAJORING IN MATHEMATICAL SCIENCES

MATHEMATICAL SCIENCES FIELDS OF INTEREST 1: 43816, 43821,43837, 43840, 43859 (4331, 4394)

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF INTEREST I

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

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

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
OLD CODE	**4331**	**4331**	**4331**	**4331**	**4394**	**4331**	**4331**	**4331**	**4331**	**4394**
NEW CODE	**43816**	**43821**	**43837**	**43840**	**43859**	**43816**	**43821**	**43837**	**43840**	**43859**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	MATM1614 MATA1614	MATM1614 CHEM1514	MATM1614 STSM1614	MATM1614 PHYS1514 PHYA1554	MATM1614 EECF1614 STSM1614 EACC1614	MATM1624 MATA2614 CSIQ1682	MATM1624 CHEM1624	STSM1624 CSIQ1682 MATM1624	MATM1624 PHYS1624 PHYA1664	MATM1624 EECF1624 STSM1624 EACC1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 OR AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	MATM2614 MATA2614 MATA2634 MATM2654	MATM2614 CHEM2614 CHEM2632	MATM2614 STSM2616	MATM2614 PHYS2614 PHYS2632	MATM2614 EACC2608 EFES2714 ACSF2716	MATM2624 MATM2664 MATA2644	MATM2624 MATM2664 CHEM2624 CHEM2642	MATM2624 MATM2664 STSM2626	MATM2624 MATM2664 PHYS2624 PHYS2642	MATM2624 MATM2664 EACC2608 EFES2724 ACSF2726 or ACSF2746
ELECTIVES E										STSM2626
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	MATM3714 MATM3734 MATA3774	MATM3714 MATM3734 CHEM3714 CHEM3734	MATM3714 MATM3734 STSM3714 STSM3734	MATM3714 MATM3734 PHYS3714 PHYS3732 PHYS3752	MATM3714 MATM3734 EFET3714	MATM3724 MATM3744 MATA3764 MATA3784	MATM3724 MATM3744 CHEM3724 CHEM3744	MATM3724 MATM3744 STSM3724 STSM3744	MATM3724 MATM3744 PHYS3724 PHYS3742 PHYS3762	MATM3724 MATM3744 EFET3724

MATHEMATICAL SCIENCES FIELDS OF INTEREST 2: 43712, 43755, 43701, 43773 (4331, 4394, 4396)

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF INTEREST 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**
OLD CODE		**4396**	**4332**	**4333**		**4396**	**4332**	**4333**
DISCIPLINE CODE	**43712**	**43755**	**43701**	**43773**	**43712**	**43755**	**43701**	**43773**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	STSM1614 CSIS1634 PHYS1534 MATM1614	STSM1614 EECF1614 EACC1614 MATM1614	STSM1614 EECF1614 EACC1614/EFAC1614 ACSF1513 MATM1614	STSM1614 PSIN1514 EHRM1514 MATM1614	STSM1624 CSIS1644 SCCS1624 MATM1624	STSM1624 EECF1624 EACC1624 MATM1624	STSM1624 EECF1624 EFAC1624 ACSF1523 MATM1624	STSM1624 PSDE1624 EIOP1524 MATM1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508				CSIL1521			
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	STSM2616 CLIM2614 MATA2634 **ONE OF** MATM2614 MATM2654	STSM2616 MATM2654 EMIC2714 **ONE OF** MATM2614 MATA2634 *EFAC2708 EFES2714	STSM2616 ATWF2716 EMIC2714 *EFAC2708	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
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	STSM3714 STSM3734 CLIM3714 **ONE OF** MATM3714 MATM3734 MATA3774	STSM3714 STSM3734 EFET3714 EINT3715	STSM3714 STSM3734 *ACSF3706 ISCI3714 EINT3715	PSPA3714 STSM3714 STSM3734 PSRM3714 **ONE OF** MATM3714 MATM3734 MATA3774	STSM3724 STSM3744 CLIM3724 **ONE OF** MATM3724 MATM3744 MATA3764 MATA3784	STSM3724 STSM3744 EECM3724 **ONE OF** EFET3724 EECT3725 EMNF2724	STSM3724 STSM3744 *ACSF3706 EMNF2724	PSPE3724 STSM3724 STSM3744 PSTH3724 **ONE OF** MATM3724 MATM3744 MATA3764 MATA3784

MATHEMATICAL SCIENCES FIELDS OF INTEREST 3: 44650, 44655, 44673

LEARNING PROGRAMMES IN MATHEMATICAL SCIENCES FIELDS OF INTEREST 3

Learning programmes in Statistics offers TWO 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	**44650**	**44655**	**44673**	**44650**	**44655**	**44673**
YEAR	**FIRST**			**FIRST**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C1	EBCS1514 MATM1614 OR MATM1534 EACC1614 **ONE OF** EECF1614 AGEC1514	EBCS1514 MATM1614 OR MATM1534 EECF1614 **ONE OF** EACC1614 AGEC1514	EBCS1514 MATM1614 OR MATM1534 PSIN1514 EHRM1514	EBCS1524 MATM1624 OR MATM1544 EACC1624 **ONE OF** EECF1624 AGEC1624	EBCS1524 MATM1624 OR MATM1544 EECF1624 **ONE OF** EACC1624 AGEC1624	EBCS1524 MATM1624 OR MATM1544 PSIH2724 EIOP52305
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508			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 PSPA3714 ECAP2614	STSA2626 *EACC2608 **ONE OF** EMAC2724 EFES2724 AGEC2624	STSA2626 EMAC2724 **ONE OF** EFES2724 AGEC2624	STSA2626 PSDE1624 ELRM2624
YEAR	**THIRD**			**THIRD**		
SEMESTER	**FIRST**			**SECOND**		
COMPULSORY C3	STSA3716 STSA3732 EACC3708 **ONE OF** EFET3714 EINT3715 AGEC3714	STSA3716 STSA3732 EFET3714 **ONE OF** EINT3715 AGEC3714	STSA3716 STSA3732 PSSO2614 ETRM3714	STSA3726 STSA3742 **ONE OF** EFET3724 EECT3725 AGEC3724 EECM3724 EBUS7640	STSA3726 STSA3742 EFET3724 **ONE OF** EECT3725 AGEC3724 EECM3724 EBUS7640	STSA3726 STSA3742 EPFM3724

11.4.2 BACHELOR OF SCIENCE IN AGRICULTURE

11.4.2.1 AGRICULTURAL SCIENCES FIELD OF INTEREST 1: AGROMETEOROLOGY 51213, 51244, 51211, 51251, 51236, 51242

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

Learning programmes in the **Agrometeorology** as main **field of interest** 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
CODE	**51213**	**51244**	**51211**	**51251**	**51236**	**51242**	**51213**	**51244**	**51211**	**51251**	**51236**	**51242**
OLD CODE	**5323**	**5334**			**5341**	**5340**	**5323**	**5334**			**5341**	**5340**
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	AGEC1514 BLGY5113 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	AGEC1624 BLGY6143 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508						CSIL1521					
YEAR	**SECOND**						**SECOND**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C2	CLIM2614 CROP2614 SOIL2614	CLIM2614 SOIL2614 CROP2614	CLIM2614 AGEC2614 CROP2614	CLIM2614 CROP2614 SOIL2614	CLIM2614 GRAS2614 SOIL2614	CLIM2614 CROP2614 SOIL2614	CLIM2624 CROP2624 SOIL2624	CLIM2624 SOIL2624 CROP2624	CLIM2624 AGEC2624 CROP2624	CLIM2624 AGEG2624 SOIL2624	CLIM2624 SOIL2624 CROP2624	CLIM2624 PPLG2624 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	**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	**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	CLIM4814 CLIM4834 SCCS4814 AGEG3724	CLIM4814 CLIM4834 SCCS4814	CLIM4814 CLIM4834 SCCS4814	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824 AGEG4824	CLIM4824 CLIM4844 SCCS4824	CLIM4824 CLIM4844 SCCS4824 **ONE OF** PPLG4824 PPLG4844
ELECTIVE	**ONE OF:** CROP4814 CROP4834	**ONE OF:** SOIL4814 SOIL4834	**ONE OF:** AGEC4814 AGEC4834		**ONE OF:** GRAS4814 GRAS4834	PPLG4834 PPLG3714	**ONE OF:** CROP4824 CROP6824	**ONE OF:** SOIL4824 SOIL4844	**ONE OF:** AGEC4844/4824		**ONE OF:** GRAS4824 GRAS4844	

11.4.2.2 AGRICULTURAL SCIENCES FIELD OF INTEREST 2: AGRONOMY 51312, 51344, 51311, 51315, 51327, 51329, 51341, 51342

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

Learning programmes in the **Agronomy** as main **field of interest** 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**
NEW CODE	**51312**	**51344**	**51311**	**51315**	**51327**	**51329**	**51341**	**51342**	**51312**	**51344**	**51311**	**51315**	**51327**	**51329**	**51341**	**51342**
OLD CODE	**5323**	**5324**	**5321**	**5326**	**5351**	**5329**	**5324**	**5325**	**5323**	**5324**	**5321**	**5326**	**5351**	**5329**	**5324**	**5325**
YEAR	**FIRST**								**FIRST**							
SEMESTER	**FIRST**								**SECOND**							
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	AGEC1514 BLGY5113 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	AGEC1624 BLGY6143 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624 AGEC1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624 AGEC1624	BLGY1643 CHEM1644 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 FSCC2612 FSCI2612	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 IQMQ2622	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	**ONE OF:** CLIM2624 PPLG2624	**ONE OF:** SOIL2624 CLIM2624 EBUS2714	**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 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814 FSCP4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4814 CROP4834 SCCS4808 SCCS4814	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824 ENTO6884	CROP4824 CROP4844 SCCS4824	CROP4824 CROP4844 SCCS4824 PLTB4824	CROP4824 CROP4844 SCCS4824 PPLG4824
ELECTIVES	**ONE OF:** CLIM4814 CLIM4834	**ONE OF:** SOIL4814 SOIL4834	**ONE OF:** AGEC4814 AGEC4834	**ONE OF:** ANIP4814/ ANIP6814 ANIB4814 ANIN4836	**ONE OF:** ENTO6854		**ONE OF:** PLTB4814 PLTB4834 PLTB4854	PPLG4834 PPLG4814	**ONE OF:** CLIM4824 CLIM4844	**ONE OF:** SOIL4824 SOIL4844	**ONE OF:** AGEC4824 AGEC4844	**ONE OF:** ANIP4824 ANIB6824 ANIN4864				**ONE OF** PPLG4824 PPLG4844

11.4.2.3 AGRICULTURAL SCIENCES FIELD OF INTEREST 3: SOIL SCIENCE 54412, 54413, 54411, 54451, 54436, 54442

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

Learning programmes in the **Soil Science** as main **field of interest** 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**
NEW CODE	**54412**	**54413**	**54411**	**54436**	**54462**	**54442**	**54412**	**54413**	**54411**	**54436**	**54462**	**54442**
OLD CODE												
YEAR	**FIRST**						**FIRST**					
SEMESTER	**FIRST**						**SECOND**					
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	AGEC1514 BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624 AGEC1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1643 CHEM1644 SCCS1624 ANIG1624	AGEC1624 BLGY1643 CHEM1644 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	**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	SCCS4808 SCCS4814 SOIL4814 SOIL4834 **ONE OF:** CLIM4814 CLIM4834	SCCS4808 SCCS4814 SOIL4814 SOIL4834 **ONE OF:** CROP4814 CROP4834	SCCS4808 SCCS4814 SOIL4814 SOIL4834 **ONE OF:** AGEC4814 AGEC4834	SCCS4808 SCCS4814 SOIL4814 SOIL4834 **ONE OF:** GRAS4814 GRAS4834	SCCS4808 SCCS4814 CROP4834 SOIL4814 AGEC4814	SCCS4808 SCCS4814 SOIL4814 SOIL4834 PPLG4834	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** CLIM4824 CLIM4844	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** CROP4824	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** AGEC4824 AGEC4844	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** GRAS4824 GRAS4844	SCCS4824 CROP4824 SOIL4824 AGEG4824	SCCS4824 SOIL4824 SOIL4844 **ONE OF:** PPLG4824 PPLG4844

11.4.2.4 AGRICULTURAL SCIENCES FIELD OF INTEREST 4: ANIMAL, WILDLIFE AND GRASSLAND SCIENCES 51536, 53615, 51511, 53644

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

Learning programmes in the **Animal, Wildlife and Grassland Sciences** FIELD OF INTEREST 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**	**ANIMAL & GRASSLAND SCIENCES**	**GRASSLAND & ANIMAL SCIENCES**	**ANIMAL SCIENCES & AGRICULTURAL ECONOMICS**	**GRASSLAND & SOIL SCIENCES**
CODE	**51536**	**53615**	**51511**	**53644**	**51536**	**53615**	**51511**	**53644**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 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 CLIM2614 ANIG2614 AGEC2614	ANIG2614 BOCH2614 AGEC2614 **ONE OF** AGEC3714 AGEC3734	GRAS2614 SOIL2614 CLIM2614 **ONE OF** CROP2614 BOCH2614 ANIG2614	ANIG2624 ANIB2624 STSB1624 **ONE OF:** AGEC1624 AGEC2624	ANIG2624 STSB1624 SOIL2624 **ONE OF:** AGEC1624 AGEC2624	STSB1624 AGEC1624 AGEC2624 ANIB2624	SOIL2624 AGEG2624 **ONE OF** CROP2624 ZLGY2626 **ONE OF** AGEC1624 AGEC2624
YEAR	**THIRD**				**THIRD**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C3	ANIP3714 ANIB3714 ANIN3734 GRAS3714	GRAS3714 ANIP3714 SOIL3714 ANIG3714	ANIP3714 ANIB3714 ANIN3734 **ONE OF** AGEC3714 AGEC3734	GRAS3714 SOIL3714 CLIM3714 **ONE OF** CROP3714 ANIG3714	ANIP3724 ANIB3724 ANIN3744 GRAS3724 DATA3722	GRAS3724 DATA3722 ANIP3724 SOIL3724 **ONE OF** VWW364 ANIG3724	DATA3722 ANIB3724 ANIN3744 ANIP3724 **ONE OF** AGEC3744 AGEC3724	SOIL3724 DATA3722 GRAS3724 **TWO OF** CROP3724 ANIG3724 CLIM3724
YEAR	**FOURTH**				**FOURTH**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C4	ANIP4814 ANIB4814 ANIN4836 ANIG4805/4803	ANIP4814 GRAS4814 GRAS4834 ANIG4805/4803	ANIP4814 ANIB4814 ANIN4836 ANIG4805/4803	GRAS4814 GRAS4834 ANIG4805/4803 **ONE OF** SOIL4814 SOIL4834	ANIP4824 ANIB6824 ANIN4864	GRAS4824 GRAS4844 ANIP4824	ANIP4824 ANIB6824 ANIN4864	GRAS4844 GRAS4824 **ONE OF** SOIL4824 SOIL4844

11.4.2.5. AGRICULTURAL SCIENCES FIELD OF INTEREST 5: FOOD SCIENCES 52913, 52915, 52918, 52921, 52939

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

Learning programmes in the **Food Science** FIELD OF INTEREST offer FOUR options with a combination of **Food Science** as a major for specialisation in the fourth year and a minor from either fields of interest 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 & BIOCHEMISTRY	FOOD SCIENCE &CHEMISTRY	FOOD SCIENCE & MICROBIOLOGY	FOOD SCIENCE & AGRONOMY	FOOD & ANIMAL SCIENCES	FOOD SCIENCE & BIOCHEMISTRY	FOOD SCIENCE & CHEMISTRY	FOOD SCIENCE & MICROBIOLOGY
OLD CODE	**5327**	**5463**	**5348**	**5350**	**5349**	**5327**	**5463**	**5348**	**5350**	**5349**
NEW CODE	**52913**	**52915**	**52919**	**52921**	**52939**	**52913**	**52915**	**52919**	**52921**	**52939**
YEAR	**FIRST**					**FIRST**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534 AGEC1514	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1683 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1683 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1683 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1683 BLGY1643 CHEM1624 SCCS1624 ANIG1624 MATM1544	BLGY1683 BLGY1643 CHEM1644 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508					CSIL1521				
YEAR	**SECOND**					**SECOND**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C2	BOCH2614 MCBP2616 CROP2614 FSCC2612 FSCI2612	BOCH2614 MCBP2616 ANIG2614 FSCC2612 FSCI2612	BOCB2616 MCBP2616 FSCC2612 FSCI2612	BOCH2614 CHEM2614 CHEM2632 MCBH2614 FSCC2612 FSCI2612	BOCB2616 MCBP2616: FSCC2612 FSCI2612	CROP2624 FSCC2622 FSCS2624 EBUS1624	FSCC2622 FSCS2624 ANIG2624 **ONE OF**: ANIB2624 AGEC1624 EBUS2664	BOCE2626 IQMQ2622 FSCC2622 FSCS2624	FSCC2622 FSCS2624 CHEM2624 CHEM2642	FSCC2622 FSCS2624 MCBP2626 IQMQ2622 BOCE2626
YEAR	**THIRD**					**THIRD**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C3	CROP3714 FSCA3714 FSCI3714 EHRM1514 EBUS1614	FSCA3714 FSCI3714 ANIP3714 **ONE OF:** EHRM1514 ANIN3734	FSCA3714 FSCI3714 BOCM3714 BOCE3714	FSCA3714 FSCI3714 CHEM3714 CHEM3734	FSCA3714 FSCI3714 MCBG3714 **ONE OF:** BOCM3714 MKB334	FSCP3724 FSCB3724 CROP3724 DATA3722 EBUS2624	FSCP3724 FSCB3724 ANIP3724 DATA3722 ANIN3744	FSCP3724 FSCB3724 BOCP3724 BOCS3724	FSCP3724 FSCB3724 CHEM3724 CHEM3744	FSCP3724 FSCB3724 MCBM3724 MCBP3724
YEAR	**FOURTH**					**FOURTH**				
SEMESTER	**FIRST**					**SECOND**				
COMPULSORY C4	FSCP4814 FSCE4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCP4814 FSCE4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCP4814 FSCE4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCP4814 FSCE4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCP4814 FSCE4814 FSCD4814 FSCM4814 FSCR4808 FSCL4806	FSCG4826	FSCG4826	FSCG4826	FSCG4826	FSCG4826

11.4.2.6 AGRICULTURAL SCIENCES FIELD OF INTEREST 6: PLANT BREEDING AND PLANT PATHOLOGY 54113, 54136, 54142, 54213, 54241

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

Learning programmes in **PLANTBREEDING AND PLANT PATHOLOGY FIELD OF INTEREST** 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 interest 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
OLD CODE	**5346**	**5347**			**5346**	**5347**		
CODE	**54142**	**54241**	**54136**	**54113**	**54142**	**54241**	**54136**	**54113**
YEAR	**FIRST**				**FIRST**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C1	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1513 CHEM1514 PHYS1534 MATM1534	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624	BLGY1623 BLGY1643 CHEM1644 SCCS1624 ANIG1624
REQUIRED *if NBT < 65%	CSIL1511 UFS101 *EALN1508 or AGAN1508				CSIL1521			
YEAR	**SECOND**				**SECOND**			
SEMESTER	**FIRST**				**SECOND**			
COMPULSORY C2	BTNY2616 SOIL2614 MCBP2616 PLTB2613 BTNY2602	CROP2614 SOIL2614 MCBP2616 PLTB2613	BTNY2616 SOIL2614 GRAS2614 PLTB2613	BTNY2616 SOIL2614 CROP2614 PLTB2613	BTNY2626 PLTB2623 PPLG2624 ANIB2624	CROP2624 PLTB2623 ANIB2624 PPLG2624	BTNY2626 PLTB2623 ANIB2624	CROP2624 BTNY2626 PLTB2623 ANIB2624
ELECTIVES			BOCH2614 ENTO2616 CLIM2614 ANIG2614 BTNY2602	BOCH2614 ENTO2616 CLIM2614 BTNY2602			PPLG2624 CLIM2624	
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

11.5 LEARNING PROGRAMMES FOR POSTGRADUATE DIPLOMAS

11.5.1 ADVANCED UNIVERSITY DIPLOMA IN DISASTER MANAGEMENT 5201

The Advanced University 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. It is the prerequisite to the Master's Degree in Disaster Management.

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

First Semester		Second Semester	
DIM601	Research Methodology 15	DIM605	Disaster Risk Management 15
DIM602	Hazards and Disaster Management 15	DIM606	Information Technology in Disaster Management 15
DIM603	Strategic Disaster Management 15	DIM607	Public Health 15
DIM604	Disaster Management principles and practices 15	DIM608	Management of natural and human-made disasters 15

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

11.6.1 **BACHELOR OF ARCHITECTURE HONOURS** 45314 (4567)

The Bachelor of Architecture Honours [BArchHons] is a full-time postgraduate degree by coursework and involves lectures, projects, and continuous evaluation. The purpose of the qualification is to educate candidates who may register for the degree Master of Architecture (Professional) that will enable successful candidates to register as "Candidate 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 Magister Architecturae (Professional) degree.

The evaluations 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 Building Science HURB6804 History of the Environment RARC6808 Research in Theory of Architecture EOKR6804 Property economics	
	DMET6812 Design methodology	RMET6822 Research methodology

11.6.2 **BACHELOR OF AGRICULTURE HONOURS** 45352, 45362, 45375

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 MAJORING IN MANAGEMENT

	Agricultural Management	Irrigation Management	Wildlife Management
CODE	**45352**	**45362**	**45375**
OLD CODE	**5531**	**5532**	**5533**
CREDITS	**120 credits**	**120 credits**	**120 credits**
	AGMA6824 AGMA6814 AGMA6834 AGMA6844 AGMA6854 AGMA6864 AGMA6884 AGMA6808	AGMA6876 IRRI6808 IRRI6816 IRRI6826 IRRI6846	AGMA6876 WDMT6816 WDMT6846 WDMT6826 WDMT6808

BACHELOR OF AGRICULTURE HONOURS MAJORING IN AGRICULTURAL ECONOMICS

Students must register for **eight** modules of which AGEC6814 and AGEC6808 are compulsory. The student must choose a field and successfully complete the three prescribed modules plus three other Honours modules. This degree is awarded in the following fields:				
Agribusiness Management	**Agricultural Marketing and International Trade**	**Agricultural Policy and Development**	**Farm Management**	**Resource and Environment Economics**
5517				
AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808
AGBS6824 AGEC6894 AGEC6884	AGEC6894 AGEC6844 AGEC6884	AGEC6824 AGEC6844 AGEC6864	AGEC6894 AGEC6864 AGEC6884	AGEC6864 AGEM6824 AGEM6844
Plus three other postgraduate modules				
AGEC6834 AGMA6834 AGEC6824 AGEC6844 AGEC6864 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGMA6834 AGMA6824 AGEC6824 AGEC6864 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGMA6834 AGMA6824 AGEC6894 AGEC6824 AGEC6884 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGMA6834 AGMA6824 AGEC6824 AGEC6844 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGMA6834 AGMA6824 AGEC6894 AGEC6824 AGEC6844 AGEC6884

11.6.3 BACHELOR OF SCIENCE HONOURS IN HOME ECONOMICS 45323

To obtain 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 Head of the Department. A minimum of 120 credits must be presented. The Head of the Department 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, evaluation 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 candidate must register for the compulsory research modules of 36 credits and do research on an approved topic in consultation with the Head of the Department. More modules must be selected from the possible electives to obtain at least 120 credits.

FIRST	SECOND
COMPULSORY	
CNSC4809	
CNFD4808	
NUTE6808	
CNSC4814	CNSC4824
CNSC4834	CNSC4844
CNST4814	CNST4824
CNST4834	CNST4844
CNST4853	CNST4864

11.6.4 BACHELOR OF SPATIAL PLANNING HONOURS 45345 (4543)

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 BHonsSP 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 Head of the Department 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

11.6.5 BACHELOR OF SCIENCE HONOURS

11.6.5.1 BACHELOR OF SCIENCE HONOURS MAJORING IN AGRICULTURAL ECONOMICS 45011

Students must register for **eight** modules of which AGEC6814 and AGEC6808 are compulsory. The student must choose a field and successfully complete the three prescribed modules plus three other Honours modules. This degree is awarded in the following fields:

Agribusiness Management	**Agricultural Marketing and International Trade**	**Agricultural Policy and Development**	**Farm Management**	**Resource and Environment Economics**
5517				
AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808	AGEC6814 AGEC6808
AGBS6824 AGEC6894 AGEC6884	AGEC6894 AGEC6844 AGEC6884	AGEC6824 AGEC6844 AGEC6864	AGEC6894 AGEC6864 AGEC6884	AGEC6864 AGEM6824 AGEM6844
Plus three other postgraduate modules of which one is an appropriate Honours modules				
AGEC6834 AGEC6854 AGEC6824 AGEC6844 AGEC6864 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGEC6854 AGEC6874 AGEC6824 AGEC6864 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGEC6854 AGEC6874 AGEC6894 AGEC6824 AGEC6884 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGEC6854 AGEC6874 AGEC6824 AGEC6844 AGEM6824 AGEM6844	AGBS6824 AGEC6834 AGEC6854 AGEC6874 AGEC6894 AGEC6824 AGEC6844 AGEC6884

11.6.5.2 BACHELOR OF SCIENCE HONOURS 45018, 45019, 45027, 45039, 45049, 45057, 45031, 45020, 45040, 45070, 45042, 45041

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		
OLD CODE		4511	4530	4517		45029	Forensic Sciences	Forensic Genetics	Forensic Chemistry
NEW CODE	45018	45019	45020	45027	45057		45030	45078	45077
COMPULSORY	GENE6816 GENE6808 *GENH6814/GENH6824 *GENB6814/GENB6824 *GENE6834/GENE6844	BOCT6814 BOCO6822 BOCE6814 BOCM6814 BOCL6826 BOCR6828	PLTB6854 BNTY6806 BNTY6808	ENTO6814 ENTO6822 ENTO6832 ENTO6842 ENTO6808	SCCS6814 ENRH6824 ENRH6806 ENRH6808	FSCB6816 FSCC6816 FSCD6826 FSCM6826 FSCF6826 FSCP6826 FSCF6846 FSCR6808 FSCL6806	FORS6816 FORS6808 *FORS6814/FORS6824 *FORS6834/FORS6844 *FORS6854/FORS6864 *FORC6814/FORC6824	FORG6816 FORG6808 *FORG6814/FORG6824 *FORG6834/FORG6844 *FORG6854/FORG6864 *GENP6814/GENP6824	FORS6816 *FORS6814/FORS6824 *FORS6834/FORS6844 *FORS6854/FORS6864 CHEM6874/CHEM6884
ELECTIVES	GENE6834/GENE6844 GENS6814/GENS6824 GENP6814/GENP6824 (16 credits from Psychology or Zoology. Dependant on acceptance by respective departments.) *Module codes will depend on semester of presentation - to be determined by the department.	BOCB6824 BOCS6824 One 16-credit NQF 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 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 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 Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	*FORS6874/FORS6884 *Module codes will depend on semester of presentation - to be determined by the department	*FORG6874/FORG6884 *Module codes will depend on semester of presentation - to be determined by the department	FORS6814 FORS6824 FORS6834 FORS6874* *Module codes will depend on semester of presentation - to be determined by the department

DISCIPLINE	GENETICS	LIMNOLOGY	MICROBIOLOGY	PLANT BREEDING	PLANT HEALTH ECOLOGY	PLANT PATHOLOGY	WILDLIFE	ZOOLOGY
	4520		4526					4516
CODE	45031	45066	45039	45041	45070	45042	45075	45049
COMPULSORY	GENE6816 GENE6808 GENE6814/GENE6824	LIMH6808 LIMH6814 LIM6856 LIMH6824 LIMH6834 LIMH6844	MCBT6814 MCBO6822 MCBL6826 MCBR6828	PLTB6814 PLTB6824 PLTB6834 PLTB6854 PLTB6806 PLTB6808	PPLG6806 PPLG6808 PLTB6854 SOIL6844 PPLG6824	PLTB6854 PPLG6806 PPLG6808 PPLG6844 PPLG6824 PPLG6834	WILD6816 WILD6836 WILD6826 WILD6808	ZLGY6814 ZLGY6822 ZLGY6832 ZLGY6842 ZLGY6808
ELECTIVES	GENC6814/GENC6824 GENM6814/GENM6824 GENP6814/GENP6824 GENS6814/GENS6824 GENH6814/GENH6824 GENB6814/GENB6824 GENE6834/GENE6844 FORG6854/FORG6864 One 16-credit NQF Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	Subject to approval PD/ADH.	MCBD6824/ MCBD6834 MCBP6814/ MCBP6844 MCBM6814 MCBC6814 One 16-credit NQF Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	One 16-credit NQF 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 Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.	One 16-credit NQF Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH	One 16-credit NQF 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 Level 8 module from any other discipline in the biological field of interest. Subject to approval PD/ADH.

11.6.5.3 BACHELOR OF SCIENCE HONOURS MAJORING IN CONSTRUCTION MANAGEMENT 45024, 45043

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

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

YEAR **CREDITS: 132**	**FIRST** **CREDITS 68**	**FIRST** **CREDITS 132**		**SECOND** **CREDITS 64**	**SECOND**
MODE **New CODE**	**DISTANCE** **45024**	**RESIDENTAL** **45024**		**DISTANCE** **45024**	**RESIDENTAL**
Old CODE	**4542**	**4540**		**4542**	
COMPULSORY C1	PQMD6804 (PQM404) PDED6802 (PDE404) CSCD6803 (CSC404) CFND6804 (CFN404)	PQMR6804(POB404) PDER6802(END404) CSCR6803(KWE404) CFNR6804(KOF404) PPRR6802(BPK404) MCIR6808(BKI402) INPR6803(GIP402) APMR6803(APM404)	C2	PPRD6802 (PPR404) MCID6808 (MCI402) INPD6803 (INP402) APMD6803 (APM404)	
ELECTIVE	**ONE OF** PVPD6804 (PVP404) PFMD6804 (PFM404)	**ONE OF** PVPR6804 (EWP404) PFMR6804 (EFB404)			

BACHELOR OF SCIENCE HONOURS MAJORING IN QUANTITY SURVEYING 45024, 45043 OPEN LEARNING

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

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

YEAR **CREDITS: 132**	**FIRST** **CREDITS 68**	**FIRST** **CREDITS 132**		**SECOND** **CREDITS 64**	**SECOND**
MODE **New CODE**	**DISTANCE** **45043**	**RESIDENTAL** **45043**		**DISTANCE** **45043**	**RESIDENTAL**
Old CODE	**4541**	**4539**		**4541**	
COMPULSORYC1	DQFD6804 (DQF404) PDED6802 (PDE404) CSCD6803 (CSC404) COED6804 (COE404)	DQFR6804 (BKF404) PDER6802 (END404) CSCR6803 (KWE404) COER6804 (BOE404) PPRR6802 (BPK404) MCIR6808 (BKI402) INPR6803 (GIP402) APMR6803 (GPB404)	**C2**	PPRD6802 (PPR404) MCID6808 (MCI402) INPD6803 (INP402) APMD6803 (APM404)	
ELECTIVE	**ONE OF** PVPD6804 (PVP404) PFMD6804 (PFM404) CFND6804 (CFN404)	**ONE OF** PVPR6804 (EWP404) PFMR6804 (EFB404) CFNR6804 (KOF404)			

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

DISCIPLINE	**CHEMISTRY**	**PHYSICS**	**ASTROPHYSICS**	**AGROMETEOROLOGY** (from 2016)	**ENGINEERING SUBJECTS**
CODE	45021	45040	45017	45012	45026
COMPULSORY	CHEM6814 CHEM6834 CHEM6854 CHEM6874 CHEM6824 CHEM6844 CHEM6884 CHEM6864	PHYS6808/PHYS6814/PHYS6824* PHYS6834/PHYS6844* PHYS6894* PHYS6854/PHYS6864 PHYS6874/PHYS6884* PHYI6874/PHYI6884* PHYI6814/PHYI6824 PHYE6814/PHYE6824 PHYI6834/PHYI6844* PHYI6864/PHYI6854* PHYE6834/PHYE6844* PHYA6814/PHYA6824/PHYA6824 PHYA6834/PHYA6844 PHYA6854/PHYA6864 * Students wanting to do an MSc in Surface Physics are strongly recommended to register for these courses.	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/PHYA6824/24 PHYA6854/64 PHYA6874/84	**COMPULSORY** SCCS6814 SCCS6824 SCCS6808 **Two from** CLIM6814 CLIM6824 CLIM6834 CLIM6844 An appropriate Honours module from another discipline.	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			PHYS6814/24 PHYS6834/44 PHYE6814/24 PHYS6854/64 PHYI6814/24 PHYE6834/44 PHYA6834/44 PHYC6814/24 PHYC6834/44 PHYI6874/84		

11.6.5.5 BACHELOR OF SCIENCE HONOURS IN AGRICULTURE

HONOURS LEARNINGPROGRAMMES 55012, 55013, 55015, 55019, 45027, 45039, 45049 – BScHons (Agriculture) – Study code 5515, 5516, 5518,5521, 5523,5524

The objectives of the study for this degree are:
(a) to deepen and extend the student's knowledge in subjects 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. All modules are 20 NQF level 7 credits

DISCIPLINE	**AGROMETEOROLOGY**	**AGRONOMY**			**ANIMAL SCIENCE**			**GRASSLAND SCIENCE**	**SOIL SCIENCE**	**IRRIGATION SCIENCE**
OLD CODE	**5518**	**5515**			**5521**			**5523**	**5516**	**5524**
NEW CODE	**55012**	**55013**			**55015**			**55036**	**55044**	**55083**
SUB DISCIPLINE		Crop Production	Vegetable production	Fruit production	Animal Breeding	Animal Nutrition	Animal Physiology			
COMPULSORY	LWR601 LWR602 LWR693 LWR695	AGR693 AGR695 AGR615 AGR625 AGR635 AGR645	HRT693 HRT695 AGR615 AGR635 HRT625 HRT645	HRT693 HRT695 AGR615 AGR635 HRT625 HRT645	VKD693 VKD695 DTL601 DTL602 DTL603	VKD693 VKD695 DVL601 DVL602 DVL603 DVL604	VKD693 VKD695 DAF601 DAF602 DAF603	WDK693 WDK695 WDK601 WDK602 WDK603 WDK604	GKD615 GKD625 GKD635 GKD645 GKD693 GKD695	AGR635 BSB693 BSB695 GKD635 LWR601
ELECTIVES	**TWO OF** LWR603 LWR604 LWR605 LWR606 One of these elective modules may be replaced by an appropriate honours module from another discipline. The second choice of modules must be done in consultation with the Departmental Chairperson	One of the modules, except AGR693, AGR695, HRT693 and HRT695, may be replaced by an appropriate honours module from another discipline, in consultation with the Departmental Chairperson			**ONE OF** DAF601, DAF602, DAF603		**ONE OF** DTL601 DTL602 DTL603			**ONE OF** AGR615 GKD645 LWR605

11.6.5.6 BACHELOR OF SCIENCE HONOURS LEARNING PROGRAMMES IN COMPUTER AND INFORMATION SYSTEM SCIENCES AND MATHEMATICAL SCIENCES

DISCIPLINE	COMPUTER INFORMATION SYSTEMS	ACTUARIAL SCIENCE	MATHEMATICS AND APPLIED MATHEMATICS		MATHEMATICAL STATISTICS	STATISTICS
CODE	**4532**	**4546**	**4537**			
NEW CODE	**45022**	**45010**	**45038**		**45037**	**45046**
CREDITS	All compulsory modules plus enough others to obtain at least 120 credits					
COMPULSORY	CSIS6806 CSIP6853/CSIP6863 CSIP6873/CSIP6883 CSIS6813	ACSL6815 ACSF6806 ACSR6800 STSP6815	MATM6818/MATM6828		STSR6808 STSB6815 STSP6815 STSM6825	STSR6808 STSS6815 STSC6815
	At least five modules from	**At least 30 additional credits at NQF Level 8**			**At least TWO modules from**	**At least THREE modules from**
	CSIN6813/CSIN6823 CSID6833/CSID6843 CSII6813/CSII6823 CSIC6833/CSIC6843 CSIM6813/CSIM6823 CSIM6833/CSIM6843 CSIC6813/CSIC6823 CSID6853/CSID6863 CSIE6813/CSIE6823 CSIC6853/CSIC6863 CSID6813/CSID6823 CSIP6833/CSIP6843 CSIE6833/CSIE6843 CSIE6853/CSIE6863 CSIE6873/CSIE6883 CSII6833/CSII6843 CSIN6833/CSIN6843 CSIP6813/CSIP6823 CSII6853/CSII6863	ACSG6800 STSB6815 STSA6815 STSC6815 STSX6815 STSR6825 STSM6825 STSP6825 STSE6825 STSX6825	MATM6816/MATM6826 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	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/MATZ6834 MATZ6854/MATZ6864	STSS6815 STSF6815 STSA6815 STSC6815 STSX6815 STSF6825 STSR6825 STSF6865 STSP6825 STSE6825 STSX6825	STSB6815 STSM6815 STSP6815 STSF6815 STSA6815 STSX6815 STSF6825 STSR6825 STSF6865 STSM6825 STSP6825 STSE6825 STSX6825

11.6.5.7 HONOURS LEARNING PROGRAMMES IN GEOSCIENCES

		GEOGRAPHY
		45033
SEMESTER		
COMPULSORY		GEOF6816 GEOR6808
ELECTIVES		GEOH6816 GEOP6816 GISC6816 GEOH6836
SEMESTER		
COMPULSORY		
ELECTIVES		ENVG6826 GISC3704 ENVG6846 GISR6826 One 16-credit NQF Level 8 module from any other related field.

HONOURS LEARNING PROGRAMMES IN GEOLOGY (45035, 45028, 45032) **AND GEOHYDROLOGY** (45034)

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.

	GEOLOGY	**ENVIRONMENTAL GEOLOGY**	**GEOCHEMISTRY**	**GEOHYDROLOGY**		**GEOLOGY**	**ENVIRONMENTAL GEOLOGY**	**GEOCHEMISTRY**	**GEOHYDROLOGY**
	FIRST SEMESTER					**SECOND SEMESTER**			
COMPULSORY	GLGY6816*	GLGY6816* GLGY6823* GLGY6873*	GLGY6816* GLGY6823* GLGY6873*	GEOH6815 GEOH6835 GEOH6855				GLGY6846*	GEOH6865 GEOH6845 GEOH6835
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*	

11.7 MASTER DEGREES (NQF LEVEL 9)

11.7.1 MASTER OF ARCHITECTURE 47414 (4711), 47314(4710)

MASTER OF ARCHITECTURE 47314(4710)	**MASTER OF ARCHITECTURE 47414 (4711)**
LEARNING PROGRAMMES FOR MASTER OF ARCHITECTURE (For extended research) • The minimum term of this study is two years and a total of 180 credits are allocated for this degree. A candidate must do research on an approved topic in consultation with the head of the department, 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 Magister Architecturae (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 candidates who may register as "Candidate Architect" with the South African Council for the Architectural Profession in terms of the provisions of the Architectural Profession Act 44 of 2000. The evaluations 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

11.7.2 MASTER OF AGRICULTURE 57352, 57362, 57375 (5725)

LEARNING PROGRAMMES FOR MASTER OF AGRICULTURE

The aims of this degree study are:

(a) to present specialised post-degree agricultural management training;

(b) to guide the candidate 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 candidate to qualify as a specialist in his/her field.

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

RESEARCH		
57352	57362	57375
AGRICULTURAL MANAGEMENT	**IRRIGATION MANAGEMENT**	**WILDLIFE MANAGEMENT**
AGMA8900	IRMA8900	WDMT8900

11.7.3 MASTER OF DISASTER MANAGEMENT 47425(5703)

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 120 credits

Compulsory		**Electives (choose any two):**		
DIM791	Extended research essay	**Code**	**Subject**	**Credits**
		DIM702	Political Strategic Planning	16
		DIM703	Information Management	16
		DIM704	Ethnic and Cultural Conduct	16
		DIM705	Management of media relations	16
		DIM706	Environmental risk and impact assessment	16
		DIM707	Disaster vulnerability and risk assessment	16
		DIM708	Water-related disaster risk management	16

11.7.4 **MASTER OF ENVIRONMENTAL MANAGEMENT** 47456(4790; 4775; 4776)

LEARNING PROGRAMMES FOR MASTER OF ENVIRONMENTAL MANAGEMENT (MEM)

Upon completion of the degree the candidate should be able to:

- Apply a holistic, integrated approach when solving complex environmental problems, conducting environmental assessments, evaluating environmental assessment processes or report, or related activities.
- Identify, interpret and apply the theory and applied knowledge to suite environmental assessment tools, procedures and methods.
- Make informed decisions, guided by ethical standards, scientific evidence and societal needs within the context of Environmental Management.
- Communicate effectively with a variety of audiences, including those from the academia, private and public sectors.
- Demonstrate the ability to conduct research on an environmental management-related problem.

The programme offered is interdisciplinary and will be presented by the Faculty of Natural and Agricultural Sciences in conjunction with the Faculties of Health Sciences, 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 two years with a total of 240 credits

At the start of each semester candidates will spend two weeks at the campus in Bloemfontein where the introductory lectures, tutorials, practicals and discussions will take place and the work programme finalised. In the second semester of the first year, students will have to come to the campus for an additional week in October/November.

Master of Environmental Management by dissertation (4775)	**Structured Master of Environmental Management, register under the code (4776)**			
Year 1 and Year 2	**Semester 1**	**Semester 2**	**Semester 3**	**Semester 3**
ENMT8900	MOB707	MOB708	MOB791 **One of** MOB741 MOB743 MOB745	MOB791

11.7.5 MASTER OF SUSTAINABLE AGRICULTURE 47447(5710)

MASTER OF SUSTAINABLE AGRICULTURE 47447 (5710)

LEARNING UNITS FOR 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.

Evaluation (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			
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:** SAVA7916 SAAM7916 SASM7916	

11.7.6 MASTER OF LAND AND PROPERTY DEVELOPMENT MANAGEMENT 47464 (4798)

LEARNING PROGRAMMES FOR MLPM (PROGRAM CODE: M4091)

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 interest from the electives (E) to obtain at least 180 credits for the degree programme.

YEAR	FIRST	FIRST		SECOND	SECOND
MODE **New CODE**	**PROJECT MANAGEMENT** **47464**	**VALUATION** **47464**		**PROJECT MANAGEMENT** **47464**	**VALUATION** **47464**
Old CODE	**4798**	**4798**		**4798**	**4798**
CREDITS	**84**			**96**	
COMPULSORY **C1**	DPRP7902 TRBP7904 LSFP7902 AGEC7902 (LEK720) PPYC7901 BOEC7902 ENDC7902 (END704) ANDC7902 (END793) CCPC7901 CINC7901 INDR7902	WILD7902(NLE793) URRP7902 (ISR702) SOIL7904 (GKD708) AGEM7902 (LEK793) PPYC7901 BOEC7902 ENDC7902 (END704) ANDC7902 (END793) CCPC7901 CINC7901 INDR7902	C2	IPMP7904 ENDR7900 AINC7901 (CIN793)	ENWV7904 ENDR7900 AINC7901 (CIN793)
ELECTIVE				**SELECT ANY 16 CREDITS** URHS7904 (BEH704) URTD7902 (RBT702) URTP7902 (VVB702) URPM7902 (BGR704) URAP7902 (GSP702) URBP7902 (BSP702) URPT7904 (BTR704)	**SELECT ANY 16 CREDITS** URHS7904 (BEH 704) URTD7902 (RBT702) URTP7902 (VVB702) URPM7904 (BGR704) URAP7902 (GSP702) URBP7902 (BSP702) URPT7904 (BTR704)

11.7.7 MASTER OF LAND AND PROPERTY DEVELOPMENT IN HOUSING 47363 (4763)

These learning programmes aim to: (a) Provide the candidate 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 evaluation 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 candidate, 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 candidate must do research on an approved topic in consultation with the head of the department for at least two years, in preparation of a full dissertation.
YEAR 1+2	URHS8900

11.7.8 MASTER OF SCIENCES

These learning programmes aims at:

(a) Providing the candidate 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 evaluation 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 candidate 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 candidate may do a research Masters programme with a full dissertation or a structured Masters programme depending on the discipline for which they want to register.
- In cases where an MSc degree consists only of a dissertation, the programme code will start with 471 and in the case where the MSc degree consists of both course work and research the programme the code will start with 472.
- If the full dissertation option is followed the candidate 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. Candidates may be required to present at least one seminar/research report in each year in accordance with departmental rules.
- If the structured Master programme 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. Candidates may be required to present at least one seminar/ research report.

STRUCTURED MASTERS

	ASTROPHYSICS	**COMPUTER INFORMATION SYSTEMS**	**MATHEMATICS OR APPLIED MATHEMATICS**		
PROGRAMME CODE	**47217**	**47222**	47238 or 47216		
OLD CODE	4792	4792	4792		
COMPULSORY	PHYA7900 PHYA7990	CSIS7910	MATM7970		
ELECTIVES	Candidates in the National Astrophysics and Space Science Programme (NASSP) must do an Extended research essay (ASTA8900) (100 credits) on an approved subject, in consultation with the Academic Departmental Head, after having already completed a theoretical course component (ASTA7900 – 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 programme (www.star.ac.za). An oral examination may be required which will be arranged with the candidate after the extended research essay has been submitted.	**At least 60 Credits of**	**At least Four 24 credit modules**		
		CSIS7915/CSIS7925	MATA7916	MATK7914/MATK7924	MATU7914/MATU7924
		CSIS7935/CSIS7945	MATB7916	MATL7914/MATL7924	MATV7914/MATV7924
		CSIS7955/CSIS7965	MATC7916	MATM791/MATM7924	MATW7914/MATW7924
		CSIS7975/CSIS7985	MATCD7916	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 24 credit module from another discipline
			MATJ7914/MATJ7924	MATT7914/MATT7924	

	MATHEMATICAL STATISTICS RISK ANALYSIS	MATHEMATICAL STATISTICS	STATISTICS	ACTUARIAL SCIENCES	ACTUARIAL SCIENCES
PROGRAMME CODE	**47274 (4973)**	**47237 (4973)**	**47246 (4973)**	**47210 (4973)** **If ACSG6800 is NOT completed**	**47210 (4973)** **If ACSG6800 is completed**
COMPULSORY	STSR7900 STSF7910 STSF7920 STSE7920 (If STSF6815, STSF6825, STSE6825 was not part of the honour degree else any other NQF LEVEL 9 STS MODULE	STSR7900 STSS7910 STSE7920	STSR7900 STSA7910	ACSR7900 ACSG7900 **ONE OF** ACSH7910 ACSI7910 ACSB7920 ACSG7920	ACSR7900 **TWO OF** ACSH7910 ACSI7910 ACSB7920 ACSG7920
ELECTIVES	**At least one of** STSB7910 STSP7910 STSS7910 STSA7910 STSX7920 STSR7910 STSF7940 STSM7920 STSP7920 MATW7914/ MATW7924 EECO6816 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 STK611 was successfully completed. Themes are selected in consultation with the Academic Departmental Head	**At least four themes** STSB7910 STSP7910 STSF7910 STSA7910 STSX7920 STSF7920 STSR7910 STSF7940 STSM7920 STSP7920 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 STK611 was successfully completed. Themes are selected in consultation with the Academic Departmental Head.	**At least four themes** STSB7910 STSP7910 STSS7910 STSF7910 STSX7920 STSF7920 STSR7910 STSF7940 STSM7920 STSE7920	**Enough to obtain 180 NQF 9 credits**	**Enough to obtain 180 NQF 9 credits**

RESEARCH MASTERS 2 YEARS										
Actuarial Sciences	4793	47110	ACST8900	Environmental Rehabilitation	4792	47157	ENRH8900	Mathematical Statistics	4792	47137	STST8900
Agricultural Economics	4792	47111	AGEC8900	Food Science	4792	47129	FSCM8900	Microbiology	4792	47139	MCBT8900
Applied Mathematics	4792	47116	MATM8900	Forensic Sciences	4792	47130	FORS8900	Mathematics	4792	47138	MATM8900
Agrometeorology	4792	47112	CLIM8900	Forensic Chemistry	4792	47177	FORC8900	Microbial Biotechnology	4792	47167	MBBT8900
Astrophysics	4792	47117	PHYA8900	Forensic Entomology Genetics Interdisciplinary	4792	47130 47130	FORE8900 GENI8900	Plant Health Ecology	4792	47170	PHEC8900
Behavioural Genetics	4792	47118	GENB8900	Forensic Genetics	4792	47178	FORwG8900	Plant Breeding	4792	47141	PLTB8900
Biochemistry	4792	47119	BOCM8900	Forensic Interdisciplinary	4792	47130	FORI8900	Plant Breeding Interdisciplinary	4792	47100	PLTI8900
Botany	4792	47120	BNTY8900	Genetics	4792	47131	GENE8900	Plant Pathology	4792	47142	PPLG8900
Chemistry	4792	47121	CHEM8900	Geochemistry	4792	47132	GECE8900	Physics	4792	47140	PHYS8900
Computer Informatics Systems	4792	47122	CSIS8900	Geography	4792	47133	GEOH8900	Property Sciences	4792	47172	PROP8900
Consumer Science	4770	47123	CNSC8900	Geoinfomatics	4792	47160	GEOI8900	Quantity Surveying	4720	47143	DQFR8900
Construction Management	4780	47124	PQMR8900	Geology	4792	47135	GLGY8900	Soil Sciences	4792	47144	SOIL8900
Entomology	4792	47127	ENTO8900	Geohydrology	4792	47134	GEHR8900	Statistics	4792	47146	STST8900
Environmental Geology	4792	47128	GLGY8900	Grassland Sciences	4792	47136	GRAS8900	Wildlife	4792	47182	WILD8900
Environmental Management	4792	47156	ENMT8900	Limnology	4792	47166	LIMG8900	Zoology	4792	47149	ZLGY8900

	MASTER OF SCIENCE IN NANOSCIENCE		
PROGRAMME CODE	47269 (4793)		
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 University of Nelson Mandela Metropole and the University of Johannesburg. Candidates are subjected to a selection process. The programme consists of a theoretical coursework component (80 Credits) and a research dissertation (100 Credits).	**a) Theoretical Coursework** The coursework component is presented at the University of the Western Cape (UWC). NSCC7911 and NSMN7911 are compulsory. Candidates register for a major field of specialization (NSFC7911, NSFP7911 or NSTC7914) and the applicable Experimental Techniques module. To complete the theoretical coursework component candidates have to enrol for the two foundation courses that are not part of the major field of specialization. For example: Candidates 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, candidates must do an approved research project (dissertation) (NSRP7900) (100 credits) in Nanoscience (in consultation with the Academic Departmental Head) at the University of the Free State.

11.7.9 MASTER OF SCIENCE IN AGRICULTURE 57112, 57113, 57115, 57136, 57141, 57142, 57144, 57146, 57148

These learning programmes aim at:

- providing the candidate 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 evaluation 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 candidate 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 are allocated for this degree. Regulations: The candidate may do a research Masters programme with a full dissertation or a structured Masters programme depending on the discipline in which they want to register. In cases where an MSc degree consists only of a dissertation the programme code will start with 571 and in the case where the MSc degree consists of both course work and research the programme code will start with 592.

- If the full dissertation option is followed the candidate 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. Candidates may be required to present at least one seminar/research report in each year in accordance with departmental. DATA2614 and DATA 2624 must have been successfully completed or must be done concurrently.

RESEARCH

Agrometeorology	57112	CLIM8900	Grassland Science	57136	GRAS8900	Plant Pathology	57142	PPLG8900
Agronomy	57113	CROP8900	Plant Breeding	57141	PLTB8900	Soil Science	57144	SOIL8900
Animal Science	57115	ANIN8900	Plant Breeding Interdisciplinary	57100	PLTI8900			

11.7.10 MASTER OF SCIENCE IN HOME ECONOMICS 47123

These learning programmes aims at:

(a) providing the candidate 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 evaluation 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 candidate 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 are allocated for this degree.

The candidate may do a research Masters programme with a full dissertation or a structured Masters programme depending on the discipline in which they want to register. In cases where an MSc degree consists only of a dissertation the programme code will start with 471 and in the case where the MSc degree consists of both course work and research the programme code will start with 472.

- If the full dissertation option is followed the candidate 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. Candidates may be required to present at least one seminar/research report in each year in accordance with departmental.

If the structured Master programme is all prescribe modules, a compulsory research essay must be completed. The topic for the research must be determined in consultation with the Academic Departmental Head. Candidates may be required to present at least one seminar/research report.

RESEARCH	STRUCTURED
MASTER OF SCIENCE IN HOME ECONOMICS MSc (Home Economics) 47123 (4771)	**MASTER OF SCIENCE IN HOME ECONOMICS MSc(Home Economics) 47223 (4772)** *(Only available as from 2017 if approval is granted)*
CNCS8900	CNCS7900 CNCS7913 CNCS7923 CNCS7919 CNCS7929

11.7.11 MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT MASTER OF SCIENCE IN QUANTITY SURVEYING 47124, 47143, 47172

MSc (Construction Management and Quantity Surveying) is an advanced academic degree focused on specialisation in the construction science to prepare candidates to act as leaders in the profession and serve as specialists in different fields or in the science of quantity surveying.

These learning programmes aims at:

(c) providing the candidate 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 evaluation 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.

(d) developing the candidate 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.

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

MASTER OF SCIENCE IN CONSTRUCTION MANAGEMENT 47124 (4780)	**MASTER OF SCIENCE IN QUANTITY SURVEYING MSc (QS)** 47143 (4720)
YEAR 1 + YEAR 2	**YEAR 1 + YEAR 2**
PQMR8900	DQFR8900

11.7.12 MASTER OF URBAN AND REGIONAL PLANNING (Research) MURP 47348 (4764)

LEARNING PROGRAMMES FOR MASTER'S DEGREE IN URBAN AND REGIONAL PLANNING (Research)

These learning programmes aim to:

(a) Provide the candidate 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 evaluation 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 candidate 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 candidate must do research on an approved topic in consultation with the head of the department 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	Through the publication (or acceptance for publication) of an article in an accredited journal. The article must be accepted by an accredited journal as a scientific article before it will be accepted as an alternative to the full dissertation.

11.7.14 MASTER OF URBAN AND REGIONAL PLANNING (Professional) MURP 47448 (4762)

After completing the MURP programme, 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 Head of the Department 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. 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) 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: URRM7914 / URRM7924 URDP7912 / URDP7922 Compulsory year modules: URRP7906 URUP7906
	Year 2
	Compulsory semester modules: URPP7914 / URPP7924 URHS7913 / URHS7923 **Compulsory year modules:** URGI7904 URMD7900

11.8 DOCTOR OF SCIENCES DEGREES (NQF LEVEL 10)

11.8.1 DOCTOR OF ARCHITECTURE DArch (4910) 49014

This learning programme aims to:

(a) Provide the opportunity for candidates who have already obtain a NQF Level 10 qualification and have contributed extensive publications of exceptional quality in the specific subject field or discipline over a considerable period of time:

Candidates can register for a Doctoral degree with specialisation in one of the following areas:

Architecture	49014	**ARCH9100**

11.8.2 DOCTOR OF PHILOSOPHY (PhD) 49111–49164 (4910, 5910)

This learning programme aims to:

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

(b) Enable the candidate 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 candidate 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 candidate will present at least one seminar/ research report in each year of study in accordance with departmental regulations.

Candidates can register for a PhD with specialisation in one of the following areas:

Discipline	Old Code	New Code	Mod Code	Discipline	Old Code	New Code	Mod Code	Discipline	Old Code	New Code	Mod Code
Actuarial Sciences	4910	49110	ACST9100	Environmental Management	5910	49156	ENMT9100	Mathematical statistics	4910	49137	STST9000
Agricultural Economics	5910	49111	AGEC9100	Environmental Reabilitation	4910	49157	ENRH9100	Mathematics	4910	49138	MATM9100
Agricultural Management	4910	49152	AGMN9100	Food Science	4910/5910	49129	FSCD9100	Microbiology	4910	49139	MCBT9100
Agrometeorology	4910/5910	49112	CLIM9100	Forensic Chemistry	4910	49177	FORC9100	Microbial Biotechnology	4910	49167	MBBT9100
Agronomy	5910	49113	CROP9100	Forensic Entomology	4910	49179	FORE9100	Mineral Resource Throughput	4910	49168	MRTM9100
Architecture	4910	49114	ARCH9100	Forensic Genetics	4910	49178	FORG9100	Physics	4910	49140	PHYS9100
Animal Science	4910	49115	ANIN9100	Forensic Interdisciplinary	4910	49181	FORI9100	Plant Breeding	5910	49141	PLTB9100
Applied Mathematics	4910	49116	MATM9100	Forensics Sciences	4910	49130	FORS9100	Plant Breeding Interdisciplinary	4910/5910	49183	PLTI9100
Astrophysics	4910	49117	PHYA9100	Genetics	4910	49131	FORC9100	Plant Health Ecology	5910	49170	PHEC9100
Behavioural Genetics	4910	49118	GENB9100	Genetics Interdisciplinary	4910	49130	GENI9100	Plant Pathology	4910	49142	PPLG9100
Biochemistry	4910	49119	BOCT9100	Geochemistry	4910	49132	GECE9100	Polymer Sciences	4910	49171	PLSC9100
Botany	4910	49120	BTNY9100	Geography	4910	49133	GEOH9100	Property Sciences	4910	49172	DQFR9100
Chemistry	4910	49121	CHEM9100	Geohydrology	4910	49134	GEHR9100	Quantity Surveying	4910	49143	QTSV9000
Computer Informatics Systems	4910	49122	CSIS9100	Geographical Information Systems	4910	49160	GEOI9100	Sustainable Agriculture	4910	49147	SADR9100
Consumer Sciences	4910	49123	CNSC9100	Geology	4910	49135	GLGY9100	Soil Science	4910/5910	49144	SOIL9100
Construction Management	4910	49124	PQMR9100	Grassland Science	5910	49136	GRAS9100	Statistics	4910	49146	STST9100
Disaster Management	5910	49125	DSMT9000	Irrigation Management	5910	49162	ITMT9000	Urban and Regional Planning	4910	49148	URPD9100
Ecology	4910	49152	BIOG900	Human Settlements	4910	49163	URHS9100	Wildlife Science	5910	49184	WILD9100
Entomology	4910	49127	ENTO9100	Land and Property Development	4910	49164	URLM9100	Wildlife Management	5910	49175	WLMT9100
Environmental Geology	4910	49128	GLGE9100	Limnology	4910	49166	LIMG9100	Zoology	4910	49149	ZLGY9100

11.8.3 DOCTOR OF SCIENCE (DSc) 49011–49064

These learning programmes aims to:

(a) Provide the opportunity for candidates who have already obtain a NQF Level 10 qualification and have contributed extensive publications of exceptional quality in the specific subject field or discipline over a considerable period of time:

Candidates can register for a Doctoral degree with specialisation in one of the following areas:

Discipline	Old Code	New Code	Mod Code	Discipline	Old Code	New Code	Mod Code	Discipline	Old Code	New Code	Mod Code
Actuarial Sciences	4900	49010	ACST9100	Environmental Management	5900	49056	ENMT9100	Mathematical statistics	4900	49037	STST9000
Agricultural Economics	5900	49011	AGEC9100	Environmental Reabilitation	4900	49057	ENRH9100	Mathematics	4900	49038	MATM9100
Agricultural Management	4900	49052	AGMN9100	Food Science	4900/5900	49029	FSCD9100	Microbiology	4900	49039	MCBT9100
Agrometeorology	4900/5900	49012	CLIM9100	Forensic Chemistry	4900	49077	FORC9100	Microbial Biotechnology	4900	49067	MBBT9100
Agronomy	5900	49013	CROP9100	Forensic Entomology	4900	49179	FORE9100	Physics	4900	49040	PHYS9100
Animal Science	5900	49015	ANIN9100	Forensic Genetics	4900	49078	FORG9100	Plant Breeding	5900	49041	PLTB9100
Applied Mathematics	4900	49016	MATM9100	Forensic Interdisciplinary	4900	49181	FORI9100	Plant Breeding Interdisciplinary	5900	49083	PLTI9100
Astronomy	4900	49017	PHYA9100	Forensics Sciences	4900	49030	FORS9100	Plant Health Ecology	5900	49070	PHEC9100
Behavioural Genetics	4900	49018	GENB9100	Genetics	4900	49031	FORC9100	Plant Pathology	5900	49042	PPLG9100
Biochemistry	4900	49019	BOCD9100	Genetics Interdisciplinary	4900	49030	GENI9100	Polymer Sciences	4900	49071	PLSC9100
Botany	4900	49020	BTNY9100	Geochemistry	4900	49032	GECE9100	Property Sciences	4900	49072	PROP9100
Chemistry	4900	49021	CHEM9100	Geography	4900	49033	GEOH9100	Quantity Surveying	4900	49043	DQFR9100
Computer Informatics Systems	4900	49022	CSIS9100	Geohydrology	4900	49034	GEHR9100	Soil Science	4900/5900	49044	SOIL9100
Consumer Sciences	4900	49023	CNSC9100	Geographical Information Systems	4900	49060	GEOI9100	Statistics	4900	49046	STST9100
Construction Management	4900	49024	PQMR9100	Geology	4900	49035	GLGY9100	Wildlife Science	5900	49084	WILD9100
Entomology	4900	49027	ENTO9100	Grassland Science	5900	49036	GRAS9100	Zoology	4900	49049	ZLGY9100
Environmental Geology	4900	49028	GLGE9100	Limnology	4900	49066	LIMG9100				

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 BSc Hon
Agricultural Economics	Quantitative techniques	AGEC6814	LEK601	Selection BSc Hon
Agricultural Economics	Agricultural policy	AGEC6824	LEK606	Selection BSc Hon
Agricultural Economics	Production and consumer economics	AGEC6834	LEK602	Selection BSc Hon
Agricultural Economics	International Agricultural Trade	AGEC6844	LEK607	Selection BSc Hon
Agricultural Economics	Operational research	AGEC6854	LEK603	Selection BSc Hon
Agricultural Economics	Agricultural development	AGEC6864	LEK608	Selection BSc Hon
Agricultural Economics	Agricultural econometrics	AGEC6874	LEK604	Selection BSc Hon
Agricultural Economics	Agricultural marketing and price analysis	AGEC6884	LEK609	Selection BSc Hon
Agricultural Economics	Agricultural financing	AGEC6894	LEK605	Selection BSc Hon
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 BSc Hon
Agricultural Economics	Project planning and analysis	AGEM6844	LEK611	Selection BSc Hon
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	Agribusiness management	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 Hon
Agricultural Economics	Financial management	AGMA6814	LBB602	Selection Hon
Agricultural Economics	Advanced agricultural management	AGMA6824	LBB601	Selection Hon
Agricultural Economics	Production management	AGMA6834	LBB603	Selection Hon
Agricultural Economics	Project management	AGMA6844	LBB604	Selection Hon
Agricultural Economics	Marketing management	AGMA6854	LBB605	Selection Hon
Agricultural Economics	Human Resource management	AGMA6864	LBB606	Selection Hon
Agricultural Economics	Financial management	AGMA6874	LBB609	Selection Hon
Agricultural Economics	Business management	AGMA6884	LBB607	Selection Hon
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 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	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 yer succesfull completed
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 yer succesfull completed
Animal, Wildlife and Grassland Sciences	Introduction to animal and plant breeding	ANIB2624	DTL224	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
Animal, Wildlife and Grassland Sciences	Animal breeding: Practical application	ANIB6824	DTL602	None
Animal, Wildlife and Grassland Sciences	Applied animal breeding	ANIB6826	DTL603	None
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	None
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	VWW403	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	BCC214 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 ruminant nutrition	ANIN4864	DVL464	min DVL334
Animal, Wildlife and Grassland Sciences	Fundamental animal nutrition	ANIN6815	DVL601	None
Animal, Wildlife and Grassland Sciences	Experimental animal breeding	ANIN6825	DVL602	None
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	Growth and lactation physiology	ANIP6824	DAF602	None
Animal, Wildlife and Grassland Sciences	Animal Science Dissertaion	ANIS8900	VKD700	BSc in relevant discipline, Selection MSc, Permission from ADH
Animal, Wildlife and Grassland Sciences	Animal Science Thesis	ANIS9100	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	None
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	Habitat preferences and diet selection of game	WILD6806	NLE601	Selection BScHon
Animal, Wildlife and Grassland Sciences	Research essay	WILD6808	NLE692	Selection BScHon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Animal, Wildlife and Grassland Sciences	Habitat evaluation and monitoring	WILD6816	NLE602	Selection BScHon
Animal, Wildlife and Grassland Sciences	Integrated planning and practical environmental management practices	WILD6828	NLE603	Selection BScHon
Animal, Wildlife and Grassland Sciences	Applied Wildlife management	WILMT6826	NLB603	Selection Hon
Animal, Wildlife and Grassland Sciences	Wildlife Management Thesis	WILMT9100	NLB900	MSc Selection PhD, Permission from ADH
Animal, Wildlife and Grassland Sciences	Wildlife Thesis	WILMT9100	NLB900	MSc Selection PhD, Permission from ADH
Animal, Wildlife and Grassland Sciences	Wildlife Management Research Project	WLMT6808	NLB692	Selection Hon
Animal, Wildlife and Grassland Sciences	Veld and Game ecology	WLMT6816	NLB601	Selection Hon
Animal, Wildlife and Grassland Sciences	Applied habitat evaluation and wildlife feeding	WLMT6836	NLB602	Selection Hon
Animal, Wildlife and Grassland Sciences	Wildlife Management Dissertation	WLMT8900	NLB700	BSc in relevant discipline, Selection MSc, Permission from ADH
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	Theory of Architecture	ATRE7904	TAR70(1)4	Selection for March(Prof)
Architecture	Architectural Treatise	ATRE7904	TAR714	Selection MArch(Prof)
Architecture	Computer Draughting	CDRA2604	GRT204	CONS1606, DESN1600, PTEC1504, TRIG1512
Architecture	Construction	CONS1606	BOW106	Selection BArchStud
Architecture	Construction	CONS2606	BOW206	CONS1606, DESN1600, 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	DESN1600	ONW100	Selection BArchStud
Architecture	Design	DESN2600	ONW200	CONS1606, DESN1600, HARC1604
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	HARC1604	OGT106 /	Selection BArchStud
Architecture	History of Architecture	HARC1604	OGT106(4)	Selection for BArchStud
Architecture	History of Architecture	HARC2604	OGT204	CONS1606, DESN1600, HARC1604
Architecture	History of Architecture	HARC2604	OGT206(4)	CONS1606, DESN1600, 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	PTEC1522	GRT104	Selection BArchStud

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Architecture	Research methods in Architecture	RMET6822	NMA622	Selection BArchStud(Hons)
Architecture	Theory of Architecture	TARC2604	TAR22(0)4	BOW106, OGT106, ONW100
Architecture	Theory of Architecture	TARC2604	TAR224 /	CONS1606, DESN1600, HARC1604
Architecture	Theory of Architecture	TARC3704	TAR304	CONS2606, DESN2600, HARC2604, TARC2604
Architecture	Theory of Architecture	TARC6804	TAR604	Selection BArchStud(Hons)
Architecture	Trigonometrical Drawing	TRIG1512	GRT112	Selection BArchStud
Centre for Environmental Management	Resources And Processes	ENMT5810	MOB707	Selection for PGD (Environmental Management)
Centre for Environmental Management	Corporate Environmental Management And Sustainability	ENMT5820	MOB708	Selection for PGD in Environmental Management
Centre for Environmental Management	Environmental Impact Assessment Tools	ENMT5826	MOB708	Selection for PGD 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 PGD in Integrated Water Management
Centre for Environmental Management	Integrated Water Resources Science	IWM5820	NA	Selection for PGD in Integrated Water Management
Centre for Environmental Management	Integrated Water Resources Management And Legislation	IWMT5826	NA	Selection for PGD in Integrated Water Management
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)
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
Chemistry	Inorganic and Analytical Chemistry (Mainstream)	CHEM1514	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	CHEM2614	CEM214	CEM114, CEM124 or 60% CEM144, WTW114/134

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Chemistry	Organic Chemistry	CHEM2624	CEM224	CEM114, CEM124 or 60% CEM144, WTW114/134
Chemistry	Analytical Chemistry	CHEM2632	CEM232	CEM114, CEM124 or 60% CEM144, WTW114/134
Chemistry	Inorganic Chemistry	CHEM2642	CEM242	CEM214, CEM232
Chemistry	Analytical Chemistry	CHEM3714	CEM314	CEM214, CEM232, CEM242, WTW124/144
Chemistry	Inorganic Chemistry	CHEM3724	CEM324	CEM314
Chemistry	Physical Chemistry	CHEM3734	CEM334	CEM214, CEM232, WTW124/144
Chemistry	Organic Chemistry	CHEM3744	CEM344	CEM224
Chemistry	Inorganic Chemistry	CHEM6814	CEM614	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Inorganic Chemistry	CHEM6824	CEM624	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Physical Chemistry	CHEM6834	CEM634	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Physical Chemistry	CHEM6844	CEM644	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Organic Chemistry	CHEM6854	CEM654	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Organic Chemistry	CHEM6864	CEM664	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Analytical Chemistry	CHEM6874	CEM674	CEM314, CEM334, CEM324, CEM344 Selection BScHon
Chemistry	Analytical Chemistry	CHEM6884	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	Introduction to Information Systems	BCIS1513	New	With CSIL1511
Computer Science and Informatics	Computer Assisted Software Development	BCIS1623	New	CSIS1614
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 Analysis and Design	BCIS2614	New	BCIS1513
Computer Science and Informatics	Systems Infrastructure and Integration	BCIS2624	New	None
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	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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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 and MATM1624
Computer Science and Informatics	Introduction to Object-Oriented Programming for Engineers	CSIE1606	RIN104, CISE1606	With WTW114 and WTW124
Computer Science and Informatics	Data Structures and Algorithms for Engineers	CSIE2613	CISE2613	CSIE1606, MATM1614 and MATM1624 (40%)
Computer Science and Informatics	Data Structures and Algorithms for Engineers	CSIE2613	CISE2613	CSIE1606, WTW114 and WTW124 (40%)
Computer Science and Informatics	Boole Algebra	CSIE3614	CISE3614	None
Computer Science and Informatics	Boole Algebra	CSIE3614	CISE3614	None
Computer Science and Informatics	Microprocessors	CSIE3724	CISE3724	CSIE3614
Computer Science and Informatics	Microprocessors	CSIE3724	CISE3724	CSIE3614
Computer Science and Informatics	Knowledge-based Systems	CSIE6813	RIS609	None
Computer Science and Informatics	Knowledge-based Systems	CSIE6823	RIS609	None
Computer Science and Informatics	Management Information Systems	CSIE6833	RIS612	None
Computer Science and Informatics	Management Information Systems	CSIE6843	RIS612	None
Computer Science and Informatics	IT Project Management	CSIE6853	RIS613	None
Computer Science and Informatics	IT Project Management	CSIE6863	RIS613	None
Computer Science and Informatics	Decision Support Systems	CSIE6873	RIS614	None
Computer Science and Informatics	Decision Support Systems	CSIE6883	RIS614	None
Computer Science and Informatics	Information Security	CSII6813	RIS604	CSIS3744
Computer Science and Informatics	Information Security	CSII6823	RIS604	CSIS3744
Computer Science and Informatics	Human-Computer Interaction	CSII6833	RIS615	None
Computer Science and Informatics	Human-Computer Interaction	CSII6843	RIS615	None
Computer Science and Informatics	Computer Ethics	CSII6853	RIS618	None
Computer Science and Informatics	Computer Ethics	CSII6863	RIS618	None
Computer Science and Informatics	Computer Literacy: Part 1	CSIL1511	BRS111	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	Computer Literacy: Part 2	CSIL1521	BRS121	CSIL1511
Computer Science and Informatics	Theory of Algorithms	CSIM6813	RIS606	MATM1614 and MATM1624
Computer Science and Informatics	Theory of Algorithms	CSIM6823	RIS606	MATM1614 and MATM1624
Computer Science and Informatics	Automata Theory and Applications	CSIM6833	RIS624	None
Computer Science and Informatics	Automata Theory and Applications	CSIM6843	RIS624	None
Computer Science and Informatics	Network Management	CSIN6813	RIS601	CSIS3744
Computer Science and Informatics	Network Management	CSIN6823	RIS601	CSIS3744
Computer Science and Informatics	Advanced Computer Networks	CSIN6833	RIS616	CSIS3744
Computer Science and Informatics	Advanced Computer Networks	CSIN6843	RIS616	CSIS3744
Computer Science and Informatics	Object Design	CSIP6813	RIS617	None
Computer Science and Informatics	Object Design	CSIP6823	RIS617	None
Computer Science and Informatics	Advanced Internet Programming	CSIP6833	RIS619	CSIS3734
Computer Science and Informatics	Advanced Internet Programming	CSIP6843	RIS619	CSIS3734
Computer Science and Informatics	Advanced Programming 1	CSIP6853	RIS620	CSIS3724
Computer Science and Informatics	Advanced Programming 1	CSIP6863	RIS620	CSIS3724
Computer Science and Informatics	Advanced Programming 2	CSIP6873	RIS621	CSIP6853 or CSIP6863
Computer Science and Informatics	Advanced Programming 2	CSIP6883	RIS621	CSIP6853 or CSIP6863
Computer Science and Informatics	Introduction to Programming: Part 1	CSIS1534	RIS134	With CSIL1511
Computer Science and Informatics	Introduction to Programming: Part 1	CSIS1534 csis1564	RIS134	With CSIL1511
Computer Science and Informatics	Introduction to Computer Hardware	CSIS1553	RIS154, RIS153	None
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
Computer Science and Informatics	Programming and Problem Solving: Part 1	CSIS1614	RIS114	With CSIL1511
Computer Science and Informatics	Programming and Problem Solving: Part 2	CSIS1624	RIS124	CSIS1614 or CSIS1644
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	CSIS1634
Computer Science and Informatics	Introduction to the Internet and Web Page Development	CSIS1664	RIS164	CSIS1614 or CSIS1644
Computer Science and Informatics	Introduction to the Internet and Web Page Development	CSIS1664	RIS164	CSIS1614 or CSIS1644
Computer Science and Informatics	Visual Basic for Applications with the focus on Excel	CSIS1682	RIS182	CSIL1511
Computer Science and Informatics	Visual Basic for Applications with the Focus on Excel	CSIS1682	RIS182	CSIL1511
Computer Science and Informatics	Data Structures and Advanced Programming	CSIS2614	RIS214	CSIS1624
Computer Science and Informatics	Data Structures and Advanced Programming	CSIS2614	RIS214	CSIS1624
Computer Science and Informatics	Humen-Computer Interaction	CSIS2624	RIS224	CSIS1614 or CSIS1644
Computer Science and Informatics	Humen-Computer Interaction	CSIS2624	RIS224	CSIS1624
Computer Science and Informatics	Introduction to Databases and Database Management Systems: Part 1	CSIS2634	RIS294	CSIS1624
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	Information Technology Service Learning	CSIS2642	RIS242	CSIL1511 + CSIL1521
Computer Science and Informatics	Software Design	CSIS2664	RIS264	CSIS2614
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	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 K290
Computer Science and Informatics	Internet Programming	CSIS3734	RIS334	CSIS1664
Computer Science and Informatics	Computer Networks	CSIS3744	RIS344	CSIS1553
Computer Science and Informatics	Computer Networks	CSIS3744	RIS344	CSIS1553
Computer Science and Informatics	Project	CSIS6806	RIS693	None
Computer Science and Informatics	Project	CSIS6808	RIS693	None
Computer Science and Informatics	Introduction to Research	CSIS6813	RIS626	None
Computer Science and Informatics	Introduction to Research	CSIS6823	RIS626	None
Computer Science and Informatics	Extended Research Essay	CSIS7910	RIS791	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	Human-Computer Interaction	CSIS7915	RIS715	None
Computer Science and Informatics	Extended Research Essay	CSIS7920	RIS791	None
Computer Science and Informatics	Extended Research Essay	CSIS7920	RIS791	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Computer Science and Informatics	Human-Computer Interaction	CSIS7925	RIS715	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	CSIS7935	RIS725	None
Computer Science and Informatics	Data Warehousing	CSIS7945	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	CSIS7955	RIS730	None
Computer Science and Informatics	Educational Technology	CSIS7965	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	CSIS7975	RIS731	None
Computer Science and Informatics	Eye Tracking	CSIS7985	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 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
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	CNCS1534	ITR134	None
Consumer Sciences	Interior design- fabric study	CNCS1534	ITR134	None
Consumer Sciences	Ergonomics and Apparatus studies	CNCS1622	VBW124	None
Consumer Sciences	Ergonomics and Apparatus studies	CNCS1622	VBW124	None
Consumer Sciences	Home planning	CNCS1624	ITR124	None
Consumer Sciences	Home planning	CNCS1624	ITR124	None
Consumer Sciences	Introductory housing	CNCS2624	BES324	None
Consumer Sciences	Introductory housing	CNCS2624	BES324	None
Consumer Sciences	Recourse management	CNCS3722	VBW312	None
Consumer Sciences	Recourse management	CNCS3722	VBW312	None
Consumer Sciences	Consumer study	CNCS3724	VBW324	None
Consumer Sciences	Consumer study	CNCS3724	VBW324	None
Consumer Sciences	Community development	CNCS3732	VBW332	None
Consumer Sciences	Community development	CNCS3732	VBW332	None
Consumer Sciences	The interior, clothing or food business	CNCS3744	VBW344	None
Consumer Sciences	The interior, clothing or food business	CNCS3744	VBW344	None
Consumer Sciences	Research project	CNCS4809	HDK692	None
Consumer Sciences	Research project	CNCS4809	HDK692	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Consumer Sciences	History of textiles, clothing, interior or food.	CNCS4814	HDK606	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	History of textiles, clothing, interior or food.	CNCS4824	HDK606	None
Consumer Sciences	Food security	CNFD1532	VDS322	None
Consumer Sciences	Food security	CNFD1532	VDS322	None
Consumer Sciences	Food preparation	CNFD2614	VDS214	None
Consumer Sciences	Food preparation	CNFD2614	VDS214	None
Consumer Sciences	Food preparation II	CNFD2624	VDS224	None
Consumer Sciences	Food preparation II	CNFD2624	VDS224	None
Consumer Sciences	Food preservation	CNFD3713		None
Consumer Sciences	Food preservation	CNFD3713		None
Consumer Sciences	Product development	CNFD3732		None
Consumer Sciences	Product development	CNFD3732		None
Consumer Sciences	Meal planning	CNFD3744	VDS344	None
Consumer Sciences	Meal planning	CNFD3744	VDS344	None
Consumer Sciences	Consumer analysis of foods	CNFD4808	VBW601	None
Consumer Sciences	Consumer analysis of foods	CNFD4808	VBW601	None
Consumer Sciences	Basic Construction	CNST1534	KLE134	None
Consumer Sciences	Basic Construction	CNST1534	KLE134	None
Consumer Sciences	Children's clothing and outfit planning	CNST1644	KLE144	None
Consumer Sciences	Children's clothing and outfit planning	CNST1644	KLE144	None
Consumer Sciences	Socio-cultural aspect of clothing	CNST2614	KLE214	None
Consumer Sciences	Socio-cultural aspect of clothing	CNST2614	KLE214	None
Consumer Sciences	Textile fibres	CNST3712	TSK312	None
Consumer Sciences	Textile fibres	CNST3712	TSK312	None
Consumer Sciences	Construction and finishing of textile fabrics.	CNST3722	TSK322	None
Consumer Sciences	Construction and finishing of textile fabrics.	CNST3722	TSK322	None
Consumer Sciences	Apparel Industry	CNST3734	KLE334	None
Consumer Sciences	Apparel Industry	CNST3734	KLE334	None
Consumer Sciences	Pattern design	CNST3744	KLE344	None
Consumer Sciences	Pattern design	CNST3744	KLE344	None
Consumer Sciences	Weaving, knitting and other construction methods. Embroidery.	CNST3754	TSK424	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 and clothing for special needs	CNST4814	HDK602	None
Consumer Sciences	Clothing industry:quality control	CNST4824	HDK602	None
Consumer Sciences	Clothing industry:quality control	CNST4824	HDK602	None
Consumer Sciences	Social aspects of clothing	CNST4834	HDK603	None
Consumer Sciences	Social aspects of clothing	CNST4834	HDK603	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Consumer Sciences	Psychological aspects of clothing	CNST4844	HDK603	None
Consumer Sciences	Psychological aspects of clothing	CNST4844	HDK603	None
Consumer Sciences	Natural textile fobres en regenerated fibres.	CNST4854	HDK604	None
Consumer Sciences	Natural textile fobres en regenerated fibres.	CNST4854	HDK604	None
Consumer Sciences	Finishes for natural fibres	CNST4864	HDK604	None
Consumer Sciences	Finishes for natural fibres	CNST4864	HDK604	None
Consumer Sciences	Nutrition		VDG408	None
Consumer Sciences	Nutrition		VDG408	None
DiMTEC	Ethnic and cultural conduct	DiME7910	DiM704	Relevant NQF 8 qualification >60%
DiMTEC	Information management	DiMG7900	DiM703	Relevant NQF 8 qualification >60%
DiMTEC	Trauma management	DiMH7910	DiM701	Relevant NQF 8 qualification >60%
DiMTEC	Environmental risks and impact assessments	DiMI7910	DiM706	Relevant NQF 8 qualification >60%
DiMTEC	Management of media relations	DiMM7910	DiM705	Relevant NQF 8 qualification >60%
DiMTEC	Political strategic planning	DiMP7900	DiM702	Relevant NQF 8 qualification >60%
DiMTEC		DiMR7900	DiM791	Relevant NQF 8 qualification >60%
DiMTEC	Disaster vulnerability and risks assessments	DiMR7910	DiM707	Relevant NQF 8 qualification >60%
DiMTEC	Disaster Management Thesis	DSMT9100	DIM900	MSc Selection PhD or DSc, Permission from ADH
DiMTEC	Research design and Methodology		DiM601	3 year NQF7 qualification >60%
DiMTEC	Hazards and disaster management		DiM602	3 year NQF7 qualification >60%
DiMTEC	Strategic disaster management		DiM603	3 year NQF7 qualification >60%
DiMTEC	Disaster management principles and practices		DiM604	3 year NQF7 qualification >60%
DiMTEC	Disaster risk management		DiM605	3 year NQF7 qualification >60%
DiMTEC	Information technology in disaster management		DiM606	3 year NQF7 qualification >60%
DiMTEC	Public health		DiM607	3 year NQF7 qualification >60%
DiMTEC	Management of natural and human made disasters		DiM608	3 year NQF7 qualification >60%
Genetics	Introduction To Genetics	BLGY1623	BLG124	BLGY1513 OR BLGY1503
Genetics	Advanced Forensic Techniques	FORC6814	New	Selection for BSc Hon
Genetics	Advanced Forensic Techniques	FORC6824	New	Selection for BSc Hon
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 BSc Hon
Genetics	Research Techniques	FORG6816	GDF686	Selection for BSc Hon
Genetics	Research: Literature Review	FORG6824	GDF693	Selection for BSc Hon
Genetics	Forensic Dna Typing And Quality Assurance	FORG6834	GDF614	Selection for BSc Hon
Genetics	Forensic Dna Typing And Quality Assurance	FORG6844	GDF614	Selection for BSc Hon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Genetics	Crime Scene Management And The Justice System	FORG6854	GDF624	Selection for BSc Hon
Genetics	Crime Scene Management And The Justice System	FORG6864	GDF624	Selection for BSc Hon
Genetics	Capita Selecta In Forensic Genetics	FORG6874	GDF674	Selection for BSc Hon
Genetics	Capita Selecta In Forensic Genetics	FORG6884	GDF674	Selection for BSc Hon
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 BSc Hon
Genetics	Research Techniques	FORS6816	New	Selection for BSc Hon
Genetics	Research: Literature Review	FORS6824	New	Selection for BSc Hon
Genetics	Management And Evaluation: Forensic Sciences	FORS6834	New	Selection for BSc Hon
Genetics	Management And Evaluation: Forensic Sciences	FORS6844	New	Selection for BSc Hon
Genetics	Crime To Court	FORS6854	New	Selection for BSc Hon
Genetics	Crime To Court	FORS6864	New	Selection for BSc Hon
Genetics	Capita Selecta In Forensic Sciences	FORS6874	New	Selection for BSc Hon
Genetics	Capita Selecta In Forensic Sciences	FORS6884	New	Selection for BSc Hon
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 BSc Hon
Genetics	Advanced Behavioural Genetics	GENB6824	GGS634	Selection for BSc Hon
Genetics	Advanced Cytotaxonomy	GENC6814	GEN614	Selection for BSc Hon
Genetics	Advanced Cytotaxonomy	GENC6824	GEN614	Selection for BSc Hon
Genetics	Human Genetics	GENE2616	GEN216	BLGY1513 + BLGY1626
Genetics	Molecular Genetics	GENE2626	GEN246	BLGY1513, BLGY1623
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 BSc Hon
Genetics	Research: Literature Review	GENE6814	GEN693	Selection for BSc Hon
Genetics	Research Techniques	GENE6816	GEN686	Selection for BSc Hon
Genetics	Research: Literature Review	GENE6824	GEN693	Selection for BSc Hon
Genetics	Capita Selecta Genetics	GENE6834	GEN674	Selection for BSc Hon
Genetics	Capita Selecta Genetics	GENE6844	GEN674	Selection for BSc Hon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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 BSc Hon
Genetics	Advanced Human Genetics	GENH6824	GGS614	Selection for BSc Hon
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 BSc Hon
Genetics	Recombinant Dna Technology	GENM6824	GEN624	Selection for BSc Hon
Genetics	Applied Conservation Genetics	GENP6814	GEN654	Selection for BSc Hon
Genetics	Applied Conservation Genetics	GENP6824	GEN654	Selection for BSc Hon
Genetics	Advanced Molecular Systematics	GENS6814	GEN644	Selection for BSc Hon
Genetics	Advanced Molecular Systematics	GENS6824	GEN644	Selection for BSc Hon
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 level NCS level 4
Geography	Process Geomorpholgy	GEOP2614	GEO234	GEOP1514 (GEO114) or GLG114
Geography	Environment and climate studies	GEOP2624	GEO224	GEOP1514 (GEO114)
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	GEOR8900	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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Geography	Geography Thesis	GEOR9100	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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
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 BScHon in Geology programmes
Geology	ECONOMIC GEOLOGY	GLGY6826	GLG626	Approval to register for BScHon in Geology programmes
Geology	Mineralogy	GLGY6836	GLG636	Selection for Honours
Geology	METAMORPHIC GEOLOGY	GLGY6843	GLG643	Approval to register for BScHon in Geology programmes
Geology	ADVANCED GEOCHEMISTRY	GLGY6846	GLG646	Approval to register for BScHon in Geology programmes & GLGY3754, GLGY3774 & GLGY3784
Geology	IGNEOUS GEOLOGY	GLGY6853	GLG653	Approval to register for BScHon in Geology programmes
Geology	Structural Geology	GLGY6856	GLG656	Selection for Honours + GLGY3734
Geology	MINERAL EXPLORATION	GLGY6863	GLG663	Approval to register for BScHon in Geology programmes
Geology	ENVIRONMENTAL GEOCHEMISTRY	GLGY6873	GLG673	Approval to register for BScHon in Geology programmes
Geology	CAPITA SELECTA	GLGY6883	GLG683	Approval to register for BScHon in Geology programmes
Geology	RESEARCH ESSAY	GLGY6896	GLG696	Approval to register for BScHon 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	GEHR8900	GHR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Institute for Groundwater Studies	Geohydrology Thesis	GEHR9100	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 BScHon in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF 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	Hydrochemistry and Pollution	GEOH6835	GHR612	Approval to register for BScHon in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF 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 BScHon in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF 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 BScHon in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF 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 BScHon in Geohydrology programmes The prerequisite modules of the UFS are listed below. The equivalent modules from other universities at the same NQF 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 Management and Reporting	ACDF1626		Various; consult Programme Director
Mathematical Statistics and Actuarial Science	Actuarial Financial Mathematics	ACDF1726		Various; consult Programme Director
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Actuarial Economics Summary	ACEE1711		ACDE1710
Mathematical Statistics and Actuarial Science	Actuarial Financial Management and Reporting Summary	ACEF1621		ACDF1626
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		BSc Hons (Actuarial Science); Permission from HoD
Mathematical Statistics and Actuarial Science	Actuarial Financial Management	ACSF1614		National Senior Certificate (NCS) Mathematics on performance level 5 (60%) or WTW164/WTV164 or WTW184
Mathematical Statistics and Actuarial Science	Actuarial Financial Reporting	ACSF1622		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
Mathematical Statistics and Actuarial Science	Actuarial Asset and Liability Management	ACSG7900		5 exemptions from Actuarial Society of STH Africa subjects
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		BSc Hons (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)
Mathematical Statistics and Actuarial Science	Probability (II)	STSA3726		STK316
Mathematical Statistics and Actuarial Science	Applied Statistics I	STSA3732		STK226

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Applied Statistics II	STSA3742		STK332
Mathematical Statistics and Actuarial Science	Multivariate Methods	STSA6815	STS616	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	Data Mining	STSA6825	STS628	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	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	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	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	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	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	BSc Hons (Statistic or Mathematical Statistics); Permission from HoD
Mathematical Statistics and Actuarial Science	Modelling Extreme Values	STSE6815	STS626	WTW114 and WTW124, as well as a minimum average mark of 65% in (STK216+226+316+326) or 60% in (WKS314+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	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	Risk Analysis	STSF6825	STS621	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	Econometrics	STSF6865	STS623	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	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.

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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		WKS114 and (WTW114 or 75% in WTW134)
Mathematical Statistics and Actuarial Science	Sample distribution theory and inference	STSM2616		WKS124
Mathematical Statistics and Actuarial Science	Bayesian Statistical Inference	STSM2626		WKS216
Mathematical Statistics and Actuarial Science	Inference	STSM3714		WKS226
Mathematical Statistics and Actuarial Science	Multivariate Analysis	STSM3724		WTW124 and WKS314
Mathematical Statistics and Actuarial Science	Multiple Regression	STSM3734		WTW124 and WKS226
Mathematical Statistics and Actuarial Science	Time series analysis	STSM3744		WKS314 and WKS334
Mathematical Statistics and Actuarial Science	Regression Analysis	STSM6815	STS612	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	Generalised Linear Models	STSM6825	STS624	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	Mixed Linear Models	STSM6845	STS627	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	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	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	Statistical Programming	STSP6825	STS625	WTW114 and WTW124, as well as a minimum average mark of 65% in (STK216+226+316+326) or 60% in (WKS314+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.
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)

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematical Statistics and Actuarial Science	Reliability and Survival Analysis	STSR6825	STS622	STS613
Mathematical Statistics and Actuarial Science	Short Dissertation	STSR7900	STS791	BSc Hons (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	Discrete Mathematics	MATM3734	WTW334	WTW214 & minimum 40% in WTW264
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	minimum 40% in WTW114 of WTW134 en minimum 40% in WTW114 of WTW144

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Mathematics and Applied Mathematics	Ordinary differential equations	MATA2644	WTW244	WTW124 of WTW144
Mathematics and Applied Mathematics	Industrial Mathematics	MATA3764	WTW364	WTW214, WTW224 & WTW274 & minimum 40% in WTW234
Mathematics and Applied Mathematics	Numerical Analysis	MATA3774	WTW374	WTW124 & WTW254
Mathematics and Applied Mathematics	Dynamical Systems	MATA3784	WTW384	WTW244
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 75% in MATD1564 or at least 65% in MATM1584 or at least 50% in MATM1534 AND at least 60% in a Departmental admission test.
Mathematics and Applied Mathematics	Algebra and differential equations	MATM1624	WTW124	At least 40% in WTW114
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	WTW 114 & minimum 40% in WTW124
Mathematics and Applied Mathematics	Scientific Computing	MATM2654	WTW254	WTW124 of WTW144
Mathematics and Applied Mathematics	Sequences and series	MATM2664	WTW264	WTW114 & WTW124
Mathematics and Applied Mathematics	Complex analysis	MATM3714	WTW314	WTW124 & WTW214 & minimum 40% in WTW264
Mathematics and Applied Mathematics	Real analysis	MATM3724	WTW324	WTW214 & minimum 40% in WTW264
Mathematics and Applied Mathematics	Algebra	MATM3744	WTW344	WTW124 & WTW214 & minimum 40% in WTW264
Mathematics and Applied Mathematics	Method of Mathematics	MATM6814	WTW613	Selection BSc
Mathematics and Applied Mathematics	MATHEMATICS THESIS	MATM6816	WTW692	B Sc (Hon)
Mathematics and Applied Mathematics	Method of Mathematics	MATM6824	WTW613	Selection BSc
Mathematics and Applied Mathematics	MATHEMATICS THESIS	MATM6828	WTW692	B Sc (Hon)
Mathematics and Applied Mathematics	MATHEMATICS THESIS	MATM7910	WTW792	MSc
Mathematics and Applied Mathematics	Method of Mathematics	MATM7914	WTW713	Selection MSc
Mathematics and Applied Mathematics	Mathematics Thesis	MATM7920	WTW792	MSc
Mathematics and Applied Mathematics	Method 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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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 aa least 50% in WTW134
Mathematics and Applied Mathematics	Criptography	MATR6814	WTW618	Selection BSc
Mathematics and Applied Mathematics	Criptography	MATR6824	WTW618	Selection BSc
Mathematics and Applied Mathematics	Criptography	MATR7914	WTW718	Selection MSc
Mathematics and Applied Mathematics	Criptography	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
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 method	MATY6814	WTW625	Selection BSc
Mathematics and Applied Mathematics	Asymptotic method	MATY6824	WTW625	Selection BSc
Mathematics and Applied Mathematics	Perturbation method	MATY7914	WTW725	MATY6814 or MATY6824
Mathematics and Applied Mathematics	Perturbation method	MATY7924	WTW725	MATY6814 or MATY6824
Mathematics and Applied Mathematics	Capita Selecta	MATZ6814	WTW644	Selection BSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6824	WTW644	Selection BSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6834	WTW645	Selection BSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6844	WTW645	Selection BSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6854	WTW646	Selection BSc
Mathematics and Applied Mathematics	Capita Selecta	MATZ6864	WTW646	Selection BSc
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	NCS
Mathematics and Applied Mathematics	Mathematics Literacy in Law	MTDL1508	MTT108	NCS
Microbial, Biochemical and Food Biotechnolgy	Introduction to Biochemistry and Microbiology	BLGY1683	BLGY1683	BLGY1513/BLGY1503
Microbial, Biochemical and Food Biotechnolgy	Biochemistry of biological compounds	BOCB2616		BLGY1683 and CHEM 1624 / min 60% and CHEM1644
Microbial, Biochemical and Food Biotechnolgy	Bioinformatics and omics sciences	BOCB6824	BOC654	BSc Hon 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
Microbial, Biochemical and Food Biotechnolgy	Enzymology and introductory metabolism	BOCE2626	BOC226	BOCB2616

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	Advanced enzyme kinetics and metabolism	BOCE3714	BOC334	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Enzymology and catalysis	BOCE6814	BOC634	BSc Hon 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	BSc Hon 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	BSc Hon 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	BSc Hon 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	BOC324	BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Research essay	BOCR6828	BOC692	BSc Hon 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	BSc Hon 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 microbiology	FSCB6816	VWS601	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Food Chemistry	FSCC2612	VWS232	CEM114 or [CHE112 + CHE142 + CHE151] and [CEM124/144] or [CHE132 + CHE122 + CHE161]
Microbial, Biochemical and Food Biotechnolgy	Chemical analysis of food	FSCC2622	VWS222	FSCC2612, and [CEM114 or CHE112 + CHE142 + CHE151] and [CEM124/144] or [CHE132 + CHE122 + CHE161]
Microbial, Biochemical and Food Biotechnolgy	Food chemistry	FSCC6816	VWS602	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Dairy Science	FSCD4814	VWS424	FSCA3714
Microbial, Biochemical and Food Biotechnolgy	Dairy Science	FSCD6826	VWS603	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Food Engineering	FSCE3714	VWS334	FSCI2612, FSK134
Microbial, Biochemical and Food Biotechnolgy	Foods: General	FSCF6826	VWS605	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Selected topics in Food Science	FSCF6846	VWS607	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Product development and sensory	FSCD4826	VWS434	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Introductory Food Science	FSCI2612	VWS212	FSCS2624
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	FSCL6803	VWS695	BSc Hon Selection
Microbial, Biochemical and Food Biotechnolgy	Meat Science	FSCM4814	VWS444	FSCP3714
Microbial, Biochemical and Food Biotechnolgy	Meat Science	FSCM6826	VWS604	BSc Hon 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	FSCA3714
Microbial, Biochemical and Food Biotechnolgy	Fruit, vegetables and seeds	FSCP6826	VWS606	None
Microbial, Biochemical and Food Biotechnolgy	Literature study	FSCR4803	VWS695	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Research Project	FSCR4805	VWS693	FSCA3714, FSCE3714, FSCP3724, FSCB3724
Microbial, Biochemical and Food Biotechnolgy	Food Systems	FSCS2624	VWS224	FSCI2612, FSCC2612
Microbial, Biochemical and Food Biotechnolgy	Food Science Research Project	FSPR6808	VWS693	BSc Hon Selection

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	MCBB3724	MKB364	MCBG3714
Microbial, Biochemical and Food Biotechnolgy	Continuous and batch cultivation of microorganisms	MCBC6814	MKB694/ BTG634	BScHon 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	BScHon 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	MCBE2626	MKB226	MCBP2616
Microbial, Biochemical and Food Biotechnolgy	Growth, nutrition and death of microoganisms	MCBG3714	MKB314	MCBP2616
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	BScHon 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	BScHon 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	MCBP2616, BOCE2626
Microbial, Biochemical and Food Biotechnolgy	Advanced molecular biology	MCBM6814	MKB674	BScHon 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	BScHon Selection (At least 64 credits in Microbiology at third year level. An average of 65% in undergraduate Microbiology) modules. These include FSCB3724 and BOCM3715

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Microbial, Biochemical and Food Biotechnolgy	The basic principles of Microbiology	MCBP2616	MKB216	BLGY1513 & BLGY1683
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	MCBP2616
Microbial, Biochemical and Food Biotechnolgy	Applied microbial physiology	MCBP6814	MKB654	BScHon 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	BScHon 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	BScHon 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	BScHon 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	BScHon 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			MKB334	
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%)
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	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 BScHon (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
Physics	Capita selecta II	PHYC6834	FSK614	Selection BScHon
Physics	Capita selecta IV	PHYC6844	FSK614	Selection BScHon

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	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
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	BTNY2602	PLK202	BLGY 1513 and BLGY1643
Plant Sciences	Plant adaptations for survival on land	BTNY2616	PLK214 + PLK212/ PLK216	BLGY 1513 and BLGY1643

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Plant Sciences	Introductory plant development and biotechnology	BTNY2626	PLK224 + PLK262/ PLK226	BLGY 1513 and BLGY1643
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	None
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	PLT214/ PLT344	None

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Plant Sciences	Literature review	PLTB4806	PLT496/ PLT696	None
Plant Sciences	Research project	PLTB4808	PLT498/ PLT698	None
Plant Sciences	Advanced quantitative genetics in plant breeding	PLTB4814	PLT614/ PLT414	None
Plant Sciences	Quality and stress tolerance breeding	PLTB4824	PLT424	None
Plant Sciences	Marker-assisted breeding	PLTB4834	PLT434/ PLT634	None
Plant Sciences	Statistics in plant sciences	PLTB4854	PLT644/ PLT454	None
Plant Sciences	Literature review	PLTB6806	PLT696/ PLT496	BSc or equivalent degree with the appropriate majors
Plant Sciences	Research project	PLTB6808	PLT698/ PLT498	BSc or equivalent degree with the appropriate majors
Plant Sciences	Advanced quantitative genetics in plant breeding	PLTB6814	PLT414/ 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/ PLT434	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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	QTSV8900	BOR700	BSc in relevant discipline, Selection MSc, Permission from ADH
Quantiy Surveying and Construction Management	Quantiy Surveying Thesis	QTSV9100	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 yer 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 FSK134 or FSK114 or AGRI1554 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 “008622	CLIM3714	LWR314	CLIM2614 or CLIM2624
Soil, Crop and Climate Sciences	Climate change and variability	CLIM3724	LWR324	None
Soil, Crop and Climate Sciences	Simulating biophysical interactions	CLIM6824	LWR424	CLIM2614
Soil, Crop and Climate Sciences	Physics and dynamics of the atmosphere	CLIM6834	LWR434	CLIM2614

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	SOIL7994	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
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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	Human Settlements	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	URLM7921	BGR752	Applicable Honours degree
Urban and Regionl Planning	Planning Management	URLM7922	BGR752	Applicable Honours degree
Urban and Regionl Planning	Land and Property Development Thesis	URLM9100	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
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	URTP7913	VVB752	Applicable Honours degree
Urban and Regionl Planning	Urban Research Project	URUP7906	SBF793	Applicable Honours degree

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
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 1613; BLGY 1663 Only BSc
Zoology and Entomology	Ecophysiology of Insects	ENTO2626	ENT226	BLGY1613; 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
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	BLGY 1613 & 1663
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

NAME OF DEPARTMENT	MODULE DESCRIPTION	NEW CODE	OLD CODE	PREREQUISITE
Zoology and Entomology	Animal behaviour	ZLGY3744	DRK344	ZLGY2626
Zoology and Entomology	Research Project	ZLGY6808	DRK692	Selection BSc Hon
Zoology and Entomology	Research Techniques, Scientific Methodology and Scientific Communication	ZLGY6814	DRK614	Selection BSc Hon
Zoology and Entomology	Quantitative Ecology	ZLGY6822	DRK622	Selection BSc Hon
Zoology and Entomology	Biodiversity (Evolution & Biogeography	ZLGY6832	DRK632	Selection BSc Hon
Zoology and Entomology	Wetland Ecology	ZLGY6834	DRK634	Selection BSc Hon
Zoology and Entomology	The Environment	ZLGY6842	DRK642	Selection BSc Hon
Zoology and Entomology	Veterinary Ectoparasitology	ZLGY6854	DRK654	Selection BSc Hon
Zoology and Entomology	Animal Behaviour / Veterinary Endoparasitology	ZLGY6864	DRK664	Selection BSc Hon
Zoology and Entomology	Aquatic Parasitology	ZLGY6874	DRK674	Selection BSc Hon
Zoology and Entomology	African Ornithology / Immunology	ZLGY6884	DRK684	Selection BSc Hon
Zoology and Entomology	Capita selecta in Zoology	ZLGY6894	DRK694	Selection BSc Hon
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 BSc Hon

EQUIVALENT CODES FROM SIX DIGITS TO EIGTH DIGITS

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ABS204/ABS204	ABSR2604
ABS304/ABS304	ABSD3704
ABS304/ABS304	ABSR3704
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ACSF2726	Various
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ADS 116	SACP 1726
ADS 126	SARD 1716
ADS 126	SARD 1726
ADS 136	SALP 1716
ADS 136	SALP 1726
ADS 146	SAAM 1716
ADS 146	SAAM 1726
ADS 226	SACT 1716
ADS 226	SACT 1726
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AGR214	CROP2614
AGR224	CROP2624
AGR314	CROP3714
AGR700	CROP8900
AGR900	CROP9100
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ARG204/ARG204	ARGR2604
ARG700	ARCH8900
ARG900	ARCH9100
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AST252	PHYA2623
ATB622	URSC6814
ATB622	URSC6824
ATS691	URRT6805
BCC214	BOCH2614
BEH752	URHS7913
BEH752	URHS7923
BES324	CNCS2624
BES324	CNCS2624
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BGO624	UREP6824
BGR752	URLM6814
BGR752	URLM6824
BGR752	URLM7921
BGR752	URLM7922
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BKF104/DQF 104	DQFR1504
BKF204/DQF204	DQFD2604
BKF204/DQF204	DQFR2604
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BKI404/MCI404	MCIR6808
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BKR304/CCM304	CCMR3704

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BKS302/DQS303	DQSD3704
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BLG144	BLGY1663
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BMK793	URRM7924
BNA712	URDP7912
BNA712	URDP7922
BOC216	BOCB2616
BOC226	BOCE2626
BOC314	BOCM3714
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BOC334	BOCE3714
BOC344	BOCS3724
BOC614	BOCT6814
BOC622	BOCO6822
BOC624	BOCS6824
BOC634	BOCE6814
BOC654	BOCB6824
BOC674	BOCM6814
BOC692	BOCR6828
BOC693	BOCL6826
BOC700	BOCM8900
BOC900	BOCD9100/ BOCT9100
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BOE104/COE104	COER1504
BOE204/COE204	COED2604
BOE204/COE204	COER2604
BOE304/COE304	COED3704
BOE304/COE304	COER3704
BOE404/COE404	COED6804
BOE404/COE404	COER6804
BOE704	BOEC7902
BOR700	QTSV8900
BOR900	QTSV9100
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BOW204	COQS2604
BOW204/BSC204	BCSD2604
BOW204/BSC204	BSCR2604
BOW206	CONS2606
BOW304	COQS3704
BOW304/BSC304	BSCD3704
BOW304/BSC304	BSCR3704
BOW306	CONS3706
BOW608	CONS6808
BOW708	CONS7908
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BPK404/PPR404	PPRR6802
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BRS121	CSIL1521
BRS121	CSIL1521

OLD CODE	NEW CODE
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BSB602	IRRI6826
BSB603	IRRI6846
BSB693	IRRI6808
BSB700	IRRI8900
BSB900	IRRI9100
BTG700	MBBT8900
BTG900	MBBT9100
BTR605/604	URPT6804
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CEM144	CHEM1644
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CEM224	CHEM2624
CEM232	CHEM2632
CEM242	CHEM2642
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CEM324	CHEM3724
CEM334	CHEM3734
CEM344	CHEM3744
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CEM654	CHEM6854
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DIM706	DIMI7910
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DIM900	DSMT9100
DMT214	DATA2614
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DMT322	DATA3722
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DRK334	ZLGY3734
DRK344	ZLGY3744
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DRK642	ZLGY6842
DRK654	ZLGY6854
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DRK692	ZLGY6808
DRK694	ZLGY6894
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END793	ANDC7902
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ENT226	ENTO2626
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ENT324	ENTO3724
ENT334	ENTO3734
ENT344	ENTO3744
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ENT632	ENTO6832
ENT642	ENTO6842
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ENT664	ENTO6864
ENT674	ENTO6874
ENT684	ENTO6884
ENT692	ENTO6808
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ENT900	ENTO9100
ENW793	ENWV7904
EVB614	URRE6814
EVB624	URRE6824
EWP404/PVP404	PVPD6804
EWP404/PVP404	PVPR6804
FSK214	PHYS2614
FSK224	PHYS2624
FSK232	PHYS2632
FSK242	PHYS2642
FSK254	PHYS2654
FSK264	PHYS2664
FSK314	PHYS3714
FSK324	PHYS3724
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FSK382	PHYA3782
FSK601	PHYS6814
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FSK602	PHYS6834
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FSK603	PHYR6814
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FSK608	PHYE6814
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FSK610	PHYI6854
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FSK611	PHYE6834
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FSK692	PHYS6808
FSK700	PHYA8900
FSK700	PHYS8900
FSK725	PHYA7900
FSK791	PHYA7990
FSK900	PHYA9100
FSK900	PHYS9100
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GBE752	URUT7922
GCE700	GECE8900
GCE900	GECE9100
GDF214	FORS2616
GDF224	FORS2626
GDF314	FORS3714
GDF324	FORS3724
GDF334	FORS3734
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GDF700	FORS8900
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OLD CODE	NEW CODE
GDF920	FORC9100
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GEN324	GENE3724
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GEN654	GENP6814
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GEN674	GENE6834
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GEN686	GENE6816
GEN692	GENE6808
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GEN700	GENG8900
GEN720	FORC8900
GEN727	FORE8900
GEN731	FORG8900
GEN799	FORI8900
GEN799	GENI8900
GEN900	GENG9100
GEN927	FORE9100
GEN931	FORG9100
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GEO124	GEOH1624
GEO214	GEOH2614
GEO224	GEOP2624
GEO234	GEOP2614
GEO314	GEOH3714
GEO324	GEOP3724
GEO334	GEOP3714
GEO344	GEOH3724
GEO606	GEOG6806
GEO616	GEOF6816
GEO692	GEOR6808
GEO700	ENVR8900
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GGF636	GEOP6816
GGF656	GISR6826
GGH636	GEOH6816
GGH666	ENVG6846
GGS614	GENH6814
GGS614	GENH6824
GGS634	GENB6814

OLD CODE	NEW CODE
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GGS700	GENH8900
GGS900	GENH9100
GHR611	GEOH6815
GHR612	GEOH6835
GHR613	GEOH6855
GHR622	GEOH6865
GHR628	GEOH6845
GHR700	GEHR8900
GHR900	GEHR9100
GIB704	URGI7904
GIP404/INP404	INPD6803
GIP404/INP404	INPR6803
GIS224	GISC2624
GIS324	GISC3724
GIS616	GISC6816
GIS646	GISC3704
GKD314	SOIL2614
GKD314	SOIL3714
GKD324	SOIL2624
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GKD700	SOIL8900
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GKD900	SOIL9100
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GLG214	GLGY2614
GLG222	GLGY2622
GLG224	GLGY2624
GLG232	GLGY2632
GLG242	GLGY2642
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GLG354	GLGY3754
GLG364	GLGY3764
GLG374	GLGY3774
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GLG683	GLGY6883
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GLG721	GLGC7913
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GLG900	MRTH9100
GOB752	URID7912
GOB752	URID7922
GPB404/APM404	APMD6803
GPB404/APM404	APMR6803
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GRT112	TRIG1512
GRT122	PHOT1522
GRT204	CDRA2604
GSP604 & GCP604	URBP6806
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HDK604	CNST4864
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HDK606	CNCS4814
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HDK606	CNCS4824
HDK606	CNCS4824
HDK692	CNCS4809

OLD CODE	NEW CODE
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IGW104/EGS104	EGSR1504
IQM242	IQMQ2622
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ITR124	CNCS1624
ITR134	CNCS1534
ITR134	CNCS1534
KLE134	CNST1534
KLE134	CNST1534
KLE144	CNST1644
KLE144	CNST1644
KLE214	CNST2614
KLE214	CNST2614
KLE334	CNST3734
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KLE344	CNST3744
KLE344	CNST3744
KOB700	PQMR8900
KOB900	PQMR9100
KOF404/CFN404	CFND6804
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LBB601	AGMA6824
LBB602	AGMA6814
LBB603	AGMA6834
LBB604	AGMA6844
LBB605	AGMA6854
LBB606	AGMA6864
LBB607	AGMA6884
LBB609	AGMA6874
LBB693	AGMA6808
LBB700	AGMA8900
LBB900	AGMA9100
LEK 700	AGEC8900
LEK114	AGEC1514
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LEK214	AGEC2614
LEK224	AGEC2624
LEK314	AGEC3714
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LEK334	AGEC3734
LEK344	AGEC3744
LEK361	AGEC3721

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LEK424	AGEC4824
LEK434	AGEC4834
LEK444	AGEC4844
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LEK606	AGEC6824
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LEK610	AGEM6824
LEK611	AGEM6844
LEK693	AGEC6808
LEK720	AGEC7902
LEK793	AGEN7902
LEK900	AGEC9100
LGB752	URRA7912
LGB752	URRA7922
LHD900	URHS9100
LIM600	LIMG6800
LIM700	LIMG8900
LIM900	LIMG9100
LNG224	AGEG2624
LNG314	AGEG3714
LNG324	AGEG3724
LNG414	AGEG4814
LNG424	AGEG4824
LSF793	LSFP7902
LWC151	AGRI1551
LWL124	AGRI1624
LWL134	AGRI1534
LWL154	AGRI1554
LWL164	AGRI1664
LWR214	CLIM2614
LWR224	CLIM2624
LWR314	CLIM3714
LWR324	CLIM3724
LWR424	CLIM6824
LWR434	CLIM6834
LWR700	CLIM8900
LWR900	CLIM9100
MBG214	HMBG2614
MBG314	HMBG3714
MBG324	HMBG3724
MBG334	HMBG3734
MBG344	HMBG3744
MCB214	MCBH2614
MCB224	MCBH2624
MEM700	ENMT8900
MEM900	ENMT9100
MKB216	MCBP2616
MKB226	MCBE2626
MKB314	MCBG3714
MKB324	MCBM3724
MKB334	

OLD CODE	NEW CODE
MKB344	MCBP3724
MKB364	MCBB3724
MKB614	MCBT6814
MKB622	MCBO6822
MKB622	MCNO6822
MKB634	MCBD6824
MKB654	MCBP6814
MKB674	MCBM6814
MKB692	MCBR6828
MKB692	MCBR6828
MKB693	MCBL6826
MKB693	MCBL6826
MKB694/BTG634	MCBC6814
MKB700	MCBT8900
MKB900	MCBT9100
MOB707	ENMT5810
MOB707	ENMT7910
MOB708	ENMT5820
MOB708	ENMT5826
MOB708	ENMT7920
MOB741	IWMT7910
MOB743	ENMT7930
MOB745	IWMT7950
MOB791	ENMT7900
MRM700	MRTM8900
MRM900	MRTM9100
MTA108	MTDH1508
MTT108	MTDL1508
MVL 720	SASA 7903
MVL 721	SARM 7903
MVL 723	SAUR 7916
MVL 730	SAEX 7916
MVL 731	SARD 7926
MVL 732	SATN 7916
MVL 733	SACT 7926
MVL 740	SAVA 7926
MVL 741	SAAM 7926
MVL 750	SAFM 7926
MVL 752	SASM 7926
MVL 761	SACP 7916
MVL 770	SALP 7916
MVL724	SAPM 7926
MVL791	SASC 7900
MVL792	SAMD 7900
MVL793	SAPA 7900
NA	IWM5810
NA	IWM5820
NA	IWMT5826
NA	WRMT8900
NEC302	CLNS3702
New	CHEM1513
New	CHEM1623
New	BCIS1513
New	BCIS1513
New	BCIS1623
New	BCIS1623
New	BCIS2614
New	BCIS2614
New	BCIS2624

OLD CODE	NEW CODE
New	BCIS2624
New	BCIS3714
New	BCIS3714
New	FORC3814
New	FORC6824
New	FORI9100
New	FORS6808
New	FORS6814
New	FORS6816
New	FORS6824
New	FORS6834
New	FORS6844
New	FORS6854
New	FORS6864
New	FORS6874
New	FORS6884
New	GENI9100
New	GEOH6826
NLB601	WDMT6816
NLB602	WDMT6836
NLB603	WDMT6826
NLB692	WDMT6808
NLB700	WDMT8900
NLB900	WDMT9100
NLB900	WDMT9100
NLE601	WILD6816
NLE602	WILD6826
NLE603	WILD6878
NLE692	WILD6808
NMA622	RMET6822
none	PHYA3708
none	PHYA6874
none	PHYA6884
OGT106 /	HARC1604
OGT106(4)	HARC1604
OGT204	HARC2604
OGT206(4)	HARC2604
OGT304	HARC3704
OGT606	HURB6806
OMA612	DMET6812
ONW100	DESN1600
ONW200	DESN2600
ONW300	DESN3700
ONW600	DESN6800
ORH696	ENRH6806
ORH698	ENRH6808
ORH700	ENRH8900
ORH900	ENRH9100
PAK714 /	PARC7904
PLK202	BTNY2602
PLK214 + PLK212/ PLK216	BTNY2616
PLK224 + PLK262/ PLK226	BTNY2626
PLK302	BTNY3702
PLK314	BTNY3714
PLK324	BTNY3724
PLK334	BTNY3734
PLK344	BTNY3744

OLD CODE	NEW CODE
PLK354	BTNY3754
PLK614	BTNY6814
PLK624	BTNY6824
PLK634	BTNY6834
PLK644	BTNY6844
PLK654	BTNY6854
PLK664	BTNY6864
PLK674	BTNY6874
PLK684	BTNY6884
PLK696	BTNY6806
PLK698	BTNY6808
PLK700	BTNY8900
PLK900	BTNY9100
PLT214/PLT344	PLTB3744
PLT224	PLTB2613
PLT224	PLTB2623
PLT314	PLTB3714
PLT324	PLTB3724
PLT414/PLT614	PLTB6814
PLT424	PLTB4824
PLT434/PLT634	PLTB4834
PLT496/PLT696	PLTB4806
PLT498/PLT698	PLTB4808
PLT614/PLT414	PLTB4814
PLT624	PLTB6824
PLT634/PLT434	PLTB6834
PLT644	PLTB6874
PLT644/PLT454	PLTB4854
PLT644/PLT654	PLTB6854
PLT696/PLT496	PLTB6806
PLT698/PLT498	PLTB6808
PLT700	PLTB8900
PLT900	PLTB9100
PLT999	PLTI9100
POB104/PQM104	PQMD1504
POB104/PQM104	PQMR1504
POB204/PQM204	PQMD2604
POB204/PQM204	PQMR2604
POB304/PQM304	PQMD3704
POB304/PQM304	PQMR3704
POB304/PQM305	PQMD3704
POB304/PQM305	PQMR3704
POB404/PQM404	PQMD6804
POB404/PQM404	PQMR6804
PPB752	URPP7914
PPB752	URPP7924
PPG214/PPG224	PPLG2624
PPG324	PPLG3724
PPG334/PPG444	PPLG4844
PPG334/PPG644	PPLG6844
PPG344	PPLG3744
PPG414/PPG314	PPLG3714
PPG424/ PPG444	PPLG4824
PPG424/PPG334	PPLG3734
PPG434	PPLG4834
PPG496	PPLG4806
PPG498	PPLG4808
PPG624/PPG444	PPLG6824
PPG634	PPLG6834

OLD CODE	NEW CODE
PPG696	PPLG6806
PPG698	PPLG6808
PPG701	PHEC8900
PPG702	PPLG8900
PPG901	PHEC9100
PPG902	PPLG9100
PPY702	PPYC7901
QALC1510	QALC1513
RBT752	URTD7912
RBT752	URTD7922
RIN104, CISE1606	CSIE1606
RIN104, CISE1606	CSIE1606
RIS114	CSIS1614
RIS114	CSIS1614
RIS124	CSIS1624
RIS124	CSIS1624
RIS134	CSIS1534
RIS134	CSIS1534 CSIS1564
RIS144	CSIS1644
RIS154, RIS153	CSIS1553
RIS154, RIS153	CSIS1553
RIS164	CSIS1664
RIS164	CSIS1664
RIS182	CSIS1682
RIS182	CSIS1682
RIS214	CSIS2614
RIS214	CSIS2614
RIS224	CSIS2624
RIS224	CSIS2624
RIS242	CSIS2642
RIS242	CSIS2642
RIS264	CSIS2664
RIS264	CSIS2664
RIS294	CSIS2634
RIS294	CSIS2634
RIS314	CSIS3714
RIS314	CSIS3714
RIS324	CSIS3724
RIS324	CSIS3724
RIS334	CSIS3734
RIS334	CSIS3734
RIS344	CSIS3744
RIS344	CSIS3744
RIS601	CSIN6813
RIS601	CSIN6823
RIS604	CSII6813
RIS604	CSII6823
RIS606	CSIM6813
RIS606	CSIM6823
RIS608	CSIC6813
RIS608	CSIC6823
RIS609	CSIE6813
RIS609	CSIE6823
RIS610	CSID6813
RIS610	CSID6823
RIS612	CSIE6833

OLD CODE	NEW CODE
RIS612	CSIE6843
RIS613	CSIE6853
RIS613	CSIE6863
RIS614	CSIE6873
RIS614	CSIE6883
RIS615	CSII6833
RIS615	CSII6843
RIS616	CSIN6833
RIS616	CSIN6843
RIS617	CSIP6813
RIS617	CSIP6823
RIS618	CSII6853
RIS618	CSII6863
RIS619	CSIP6833
RIS619	CSIP6843
RIS620	CSIP6853
RIS620	CSIP6863
RIS621	CSIP6873
RIS621	CSIP6883
RIS622	CSID6833
RIS622	CSID6843
RIS623	CSIC6833
RIS623	CSIC6843
RIS624	CSIM6833
RIS624	CSIM6843
RIS625	CSID6853
RIS625	CSID6863
RIS626	CSIS6813
RIS626	CSIS6823
RIS630	CSIC6853
RIS630	CSIC6863
RIS693	CSIS6806
RIS693	CSIS6808
RIS700	CSIS8900
RIS700	CSIS8900
RIS715	CSIS7915
RIS715	CSIS7915
RIS715	CSIS7925
RIS715	CSIS7925
RIS725	CSIS7935
RIS725	CSIS7935
RIS725	CSIS7945
RIS725	CSIS7945
RIS730	CSIS7955
RIS730	CSIS7955
RIS730	CSIS7965
RIS730	CSIS7965
RIS731	CSIS7975
RIS731	CSIS7975
RIS731	CSIS7985
RIS731	CSIS7985
RIS791	CSIS7910
RIS791	CSIS7910
RIS791	CSIS7920
RIS791	CSIS7920
RIS900	CSIS9100
SBF793	URUP7906

OLD CODE	NEW CODE
SKR791	DDIS7900
SSS700	URMD8900
SSS791	URMD7900
SSS793	
SSS900	URLM9100
SSS900	URPD9100
STS611	STSB6815
STS612	STSM6815
STS613	STSP6815
STS614	STSS6815
STS615	STSF6815
STS616	STSA6815
STS618	STSC6815
STS621	STSF6825
STS622	STSR6825
STS623	STSF6865
STS624	STSM6825
STS625	STSP6825
STS626	STSE6815
STS627	STSM6845
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

OLD CODE	NEW CODE
TSK424	CNST3754
TSP793	URRP7906
TVB752	URFP7912
TVB752	URFP7922
UDT604	URUT6804
VBN108	SCNS1508
VBW124	CNCS1622
VBW124	CNCS1622
VBW312	CNCS3722
VBW312	CNCS3722
VBW324	CNCS3724
VBW324	CNCS3724
VBW332	CNCS3732
VBW332	CNCS3732
VBW344	CNCS3744
VBW344	CNCS3744
VBW601	CNFD4808
VBW601	CNFD4808
VDG408	
VDG408	
VDS214	CNFD2614
VDS214	CNFD2614
VDS224	CNFD2624
VDS224	CNFD2624
VDS322	CNFD1532
VDS322	CNFD1532
VDS344	CNFD3744
VDS344	CNFD3744
VHL900	SADR9100
VKD214	ANIG2614
VKD224	ANIG2624
VKD314	ANIG3714
VKD324	ANIG3724
VKD334	ANIG3734
VKD344	ANIG3744
VKD693	ANIG4805
VKD700	ANIB8900
VKD700	ANIN8900
VKD700	ANIS8900
VKD900	ANIB9100
VKD900	ANIN9100
VKD900	ANIS9100
VVB752	URTP7912
VVB752	URTP7913
VWS212	FSCI2612
VWS222	FSCC2622
VWS224	FSCS2624
VWS232	FSCC2612
VWS314	FSCA3714
VWS324	FSCP3724
VWS334	FSCE4814
VWS344	FSCB3724
VWS414	FSCP4814
VWS424	FSCD4814
VWS434	FSCD4826
VWS444	FSCM4814
VWS601	FSCB6816

OLD CODE	NEW CODE
VWS602	FSCC6816
VWS603	FSCD6826
VWS604	FSCM6826
VWS605	FSCF6826
VWS606	FSCP6826
VWS607	FSCF6846
VWS693	FSCR6808
VWS693	FSPR6808
VWS695	FSCL6803
VWS695	FSCR4803
VWS700	FSCI8900
VWS900	FSCI9100
VWW124	ANIG1624
VWW403	ANIG4803
VWW464	ANIN3764
WDK214	GRAS2614
WDK314	GRAS3714
WDK324	GRAS3724
WDK414	GRAS4814
WDK414	GRAS6814
WDK424	GRAS4824
WDK424	GRAS6824
WDK434	GRAS4834
WDK434	GRAS6834
WDK444	GRAS4844
WDK444	GRAS6844
WDK603	GRAS6805
WDK700	GRAS8900
WDK900	GRAS9100
WTV100	MATD1400
WTW114	MATM1614
WTW114	MATR1614
WTW124	MATM1624
WTW134	MATM1534
WTW134	MATR1534
WTW142	MATM1542
WTW144	MATM1544
WTW174	MATM1574
WTW184	MATM1584
WTW214	MATM2614
WTW234	MATA2634
WTW244	MATA2644
WTW254	MATM2654
WTW264	MATM2664
WTW314	MATM3714
WTW324	MATM3724
WTW334	MATM3734
WTW344	MATM3744
WTW364	MATA3764
WTW374	MATA3774
WTW384	MATA3784
WTW601	MATA6814
WTW601	MATA6824
WTW602	MATB6814
WTW602	MATB6824
WTW603	MATC6814
WTW603	MATC6824

OLD CODE	NEW CODE
WTW604	MATD6814
WTW604	MATD6824
WTW605	MATE6814
WTW605	MATE6824
WTW606	MATF6814
WTW606	MATF6824
WTW607	MATG6814
WTW607	MATG6824
WTW608	MATH6814
WTW608	MATH6824
WTW609	MATI6814
WTW609	MATI6824
WTW610	MATJ6814
WTW610	MATJ6824
WTW611	MATK6814
WTW611	MATK6824
WTW612	MATL6814
WTW612	MATL6824
WTW613	MATM6814
WTW613	MATM6824
WTW614	MATN6814
WTW614	MATN6824
WTW615	MATO6814
WTW615	MATO6824
WTW616	MATP6814
WTW616	MATP6824
WTW617	MATQ6814
WTW617	MATQ6824
WTW618	MATR6814
WTW618	MATR6824
WTW619	MATS6814
WTW619	MATS6824
WTW620	MATT6814
WTW620	MATT6824
WTW621	MATU6814
WTW621	MATU6824
WTW622	MATV6814
WTW622	MATV6824
WTW623	MATW6814
WTW623	MATW6824
WTW624	MATX6814
WTW624	MATX6824
WTW625	MATY6814
WTW625	MATY6824
WTW644	MATZ6814
WTW644	MATZ6824
WTW645	MATZ6834
WTW645	MATZ6844
WTW646	MATZ6854
WTW646	MATZ6864
WTW692	MATM6816
WTW692	MATM6828
WTW700/MTHA700	MATA8900
WTW700/MTHA700	MATM8900
WTW701	MATA7914
WTW701	MATA7924
WTW702	MATB7914

OLD CODE	NEW CODE
WTW702	MATB7924
WTW703	MATC7914
WTW703	MATC7924
WTW704	MATD7914
WTW704	MATD7924
WTW705	MATE7914
WTW705	MATE7924
WTW706	MATF7914
WTW706	MATF7924
WTW707	MATG7914
WTW707	MATG7924
WTW708	MATH7914
WTW708	MATH7924
WTW709	MATI7914
WTW709	MATI7924
WTW710	MATJ7914
WTW710	MATJ7924
WTW711	MATK7914
WTW711	MATK7924
WTW712	MATL7914
WTW712	MATL7924
WTW713	MATM7914
WTW713	MATM7924
WTW714	MATN7914
WTW714	MATN7924
WTW715	MATO7914
WTW715	MATO7924
WTW716	MATP7914
WTW716	MATP7924
WTW717	MATQ7914
WTW717	MATQ7924
WTW718	MATR7914
WTW718	MATR7924
WTW719	MATS7914
WTW719	MATS7924
WTW720	MATT7914
WTW720	MATT7924
WTW721	MATU7914
WTW721	MATU7924
WTW722	MATV7914
WTW722	MATV7924
WTW723	MATW7914
WTW723	MATW7924
WTW724	MATX7914
WTW724	MATX7924
WTW725	MATY7914
WTW725	MATY7924
WTW744	MATZ7914
WTW744	MATZ7924
WTW745	MATZ7934
WTW745	MATZ7944
WTW746	MATZ7954
WTW746	MATZ7964
WTW792	MATM7910
WTW792	MATM7920
WTW900	MATA9100
WTW900	MATM9100

THE MODULE CONTENT WILL BE PUBLISHED SEPERATELY.

Faculty of Natural and Agricultural Sciences